

|                                           |  |           |  |                                                                                    |  |
|-------------------------------------------|--|-----------|--|------------------------------------------------------------------------------------|--|
| GSD-File                                  |  | V??       |  |  |  |
| DATE                                      |  | 16.6.2021 |  |                                                                                    |  |
| Author                                    |  | VKo       |  |                                                                                    |  |
| OUTPUT - 14 Bytes - BT/MT take parameters |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |
|                                           |  |           |  |                                                                                    |  |

| OUTPUT - 14 Bytes - BT/MT take parameters |      |         |                                           |                |           |   |   |   |   |   |   |   |                                  |
|-------------------------------------------|------|---------|-------------------------------------------|----------------|-----------|---|---|---|---|---|---|---|----------------------------------|
| INPUT - 60 Bytes - BT/MT send parameters  |      |         |                                           |                |           |   |   |   |   |   |   |   |                                  |
| Logic                                     | Byte | Channel | Description                               | Data type      | bit count |   |   |   |   |   |   |   | NOTES                            |
|                                           |      |         |                                           |                | 7         | 6 | 5 | 4 | 3 | 2 | 1 | 0 |                                  |
| 0                                         | 1    | 1       | Heating ON/OFF                            | Bit            |           |   |   |   |   |   |   | x | state, bit                       |
|                                           |      | 1       | Auto/Man drive (Auto=0, Man=1)            | Bit            |           |   |   |   |   |   |   | x | NOT USED                         |
|                                           |      | 1       | Profibus com. Alarm, BT not respond       | Bit            |           |   |   |   |   |   | x |   | Alarm, bit                       |
|                                           |      | 1       | NOT USED                                  | Bit            |           |   |   |   |   | x |   |   | NOT USED                         |
|                                           |      | 1       | TC max temperature alarm                  | Bit            |           |   |   |   | x |   |   |   | Alarm, bit                       |
|                                           |      | 1       | TC min temperature alarm                  | Bit            |           |   |   | x |   |   |   |   | Alarm, bit                       |
|                                           |      | 1       | TL max temperature alarm                  | Bit            |           |   | x |   |   |   |   |   | Alarm, bit                       |
|                                           |      | 1       | Load current max alarm                    | Bit            |           | x |   |   |   |   |   |   | Alarm, bit                       |
| 1                                         | 2    | 1       | GFC (GoundFaultCurrent) max alarm         | Bit            |           |   |   |   |   |   |   | x | Alarm, bit                       |
|                                           |      | 1       | GFC (GoundFaultCurrent) trip alarm        | Bit            |           |   |   |   |   |   | x |   | Alarm, bit                       |
|                                           |      | 1       | Tyristor (SSR) failure alarm              | Bit            |           |   |   |   |   |   | x |   | Alarm, bit                       |
|                                           |      | 1       | Load/main circuit feed missing alarm      | Bit            |           |   |   |   |   | x |   |   | Alarm, bit                       |
|                                           |      | 1       | PT100 temperature sensor alarm            | Bit            |           |   |   |   | x |   |   |   | Alarm, bit                       |
|                                           |      | 1       | BT-TL600 ATEX teperature limiter alarm    | Bit            |           |   |   | x |   |   |   |   | Alarm, bit                       |
|                                           |      | 1       | BlueTrace com alarm                       | Bit            |           |   | x |   |   |   |   |   | Alarm, bit                       |
|                                           |      | 1       | TH (Heat Sink) max temperature alarm      | Bit            |           | x |   |   |   |   |   |   | Alarm, bit                       |
| 2                                         | 3    | 1       | Temperature setpoint (TC), 1th byte       | Signed Int16   |           |   |   |   |   |   |   |   | scale factor 10, Degrees Celcius |
| 3                                         | 4    | 1       | Temperature setpoint (TC), 2h byte        | Signed Int16   |           |   |   |   |   |   |   |   | scale factor 10, Degrees Celcius |
| 4                                         | 5    | 1       | TC measurement (Control sensor), 1th byte | Signed Int16   |           |   |   |   |   |   |   |   | scale factor 10, Degrees Celcius |
| 5                                         | 6    | 1       | TC measurement (Control sensor), 2th byte | Signed Int16   |           |   |   |   |   |   |   |   | scale factor 10, Degrees Celcius |
| 6                                         | 7    | 1       | TL measurement (Limit sensor), 2th byte   | Signed Int16   |           |   |   |   |   |   |   |   | scale factor 10, Degrees Celcius |
| 7                                         | 8    | 1       | TL measurement (Limit sensor), 2th byte   | Signed Int16   |           |   |   |   |   |   |   |   | scale factor 10, Degrees Celcius |
| 8                                         | 9    | 1       | TH (Heat Sink) temperature, 1th byte      | Signed Int16   |           |   |   |   |   |   |   |   | scale factor 10, Degrees Celcius |
| 9                                         | 10   | 1       | TH (Heat Sink) temperature, 2th byte      | Signed Int16   |           |   |   |   |   |   |   |   | scale factor 10, Degrees Celcius |
| 10                                        | 11   | 1       | GFC measurement, milliameres, 1th byte    | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, mA              |
| 11                                        | 12   | 1       | GFC measurement, milliameres, 2th byte    | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, mA              |
| 12                                        | 13   | 1       | L1 load current, amperes*10, 1th byte     | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, A               |
| 13                                        | 14   | 1       | L1 load current, amperes*10, 2th byte     | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, A               |
| 14                                        | 15   | 1       | L2 load current, amperes*10, 1th byte     | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, A               |
| 15                                        | 16   | 1       | L2 load current, amperes*10, 2th byte     | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, A               |
| 16                                        | 17   | 1       | L3 load current, amperes*10, 1th byte     | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, A               |
| 17                                        | 18   | 1       | L3 load current, amperes*10, 2th byte     | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, A               |
| 18                                        | 19   | 1       | L1 power, kilowatts*10, 1th byte          | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, kW              |
| 19                                        | 20   | 1       | L1 power, kilowatts*10, 2th byte          | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, kW              |
| 20                                        | 21   | 1       | L2power, kilowatts*10, 1th byte           | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, kW              |
| 21                                        | 22   | 1       | L2 power, kilowatts*10, 2th byte          | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, kW              |
| 22                                        | 23   | 1       | L3 power, kilowatts*10, 1th byte          | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, kW              |
| 23                                        | 24   | 1       | L3 power, kilowatts*10, 2th byte          | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, kW              |
| 24                                        | 25   | 1       | Total power, kilowatts*10, 1th byte       | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, kW              |
| 25                                        | 26   | 1       | Total power, kilowatts*10, 2th byte       | Unsigned Int16 |           |   |   |   |   |   |   |   | scale factor 10, kW              |
| 26                                        | 27   | 1       | Total Energy consumption, 1th byte        | Unsigned Int32 |           |   |   |   |   |   |   |   | scale factor 10, kWh             |
| 27                                        | 28   | 1       | Total Energy consumption, 2th byte        | Unsigned Int32 |           |   |   |   |   |   |   |   | scale factor 10, kWh             |
| 28                                        | 29   | 1       | Total Energy consumption, 3th byte        | Unsigned Int32 |           |   |   |   |   |   |   |   | scale factor 10, kWh             |
| 29                                        | 30   | 1       | Total Energy consumption, 4th byte        | Unsigned Int32 |           |   |   |   |   |   |   |   | scale factor 10, kWh             |

| OUTPUT - 14 Bytes - BT/MT take parameters |      |         |                                           |                |                                        |     |   |   |   |   |   |                                  |            |            |
|-------------------------------------------|------|---------|-------------------------------------------|----------------|----------------------------------------|-----|---|---|---|---|---|----------------------------------|------------|------------|
| INPUT - 60 Bytes - BT/MT send parameters  |      |         |                                           |                |                                        |     |   |   |   |   |   |                                  |            |            |
| Logic                                     | Byte | Channel | Description                               | Data type      | bit count                              |     |   |   |   |   |   |                                  | NOTES      |            |
|                                           |      |         |                                           |                | 7                                      | 6   | 5 | 4 | 3 | 2 | 1 | 0                                |            |            |
| 30                                        | 31   | 2       | Heating ON/OFF                            | Bit            |                                        |     |   |   |   |   |   | x                                | state, bit |            |
|                                           |      | 2       | Auto/Man drive (Auto=0, Man=1)            | Bit            |                                        |     |   |   |   |   |   | x                                | NOT USED   |            |
|                                           |      | 2       | Profibus com. Alarm, BT not respond       | Bit            |                                        |     |   |   |   |   | x |                                  | Alarm, bit |            |
|                                           |      | 2       | NOT USED                                  | Bit            |                                        |     |   |   |   | x |   |                                  | NOT USED   |            |
|                                           |      | 2       | TC max temperature alarm                  | Bit            |                                        |     |   |   | x |   |   |                                  | Alarm, bit |            |
|                                           |      | 2       | TC min temperature alarm                  | Bit            |                                        |     |   |   | x |   |   |                                  | Alarm, bit |            |
|                                           |      | 2       | TL max temperature alarm                  | Bit            |                                        |     |   |   | x |   |   |                                  | Alarm, bit |            |
|                                           |      | 2       | Load current max alarm                    | Bit            |                                        | x   |   |   |   |   |   |                                  | Alarm, bit |            |
|                                           |      | 31      | 32                                        | 2              | GFC (GoundFaultCurrent) max alarm      | Bit |   |   |   |   |   |                                  | x          | Alarm, bit |
|                                           |      |         |                                           | 2              | GFC (GoundFaultCurrent) trip alarm     | Bit |   |   |   |   |   |                                  | x          | Alarm, bit |
|                                           |      |         |                                           | 2              | Tyristor (SSR) failure alarm           | Bit |   |   |   |   |   | x                                |            | Alarm, bit |
|                                           |      |         |                                           | 2              | Load/main circuit feed missing alarm   | Bit |   |   |   |   |   | x                                |            | Alarm, bit |
|                                           |      |         |                                           | 2              | PT100 temperature sensor alarm         | Bit |   |   |   |   |   | x                                |            | Alarm, bit |
|                                           |      |         |                                           | 2              | BT-TL600 ATEX teperature limiter alarm | Bit |   |   |   |   | x |                                  |            | Alarm, bit |
|                                           |      |         |                                           | 2              | BlueTrace com alarm                    | Bit |   |   |   | x |   |                                  |            | Alarm, bit |
|                                           |      |         |                                           | 2              | TH (Heat Sink) max temperature alarm   | Bit |   | x |   |   |   |                                  |            | Alarm, bit |
| 32                                        | 33   | 2       | Temperature setpoint (TC), 1th byte       | Signed Int16   |                                        |     |   |   |   |   |   | scale factor 10, Degrees Celcius |            |            |
| 33                                        | 34   | 2       | Temperature setpoint (TC), 2h byte        | Signed Int16   |                                        |     |   |   |   |   |   | scale factor 10, Degrees Celcius |            |            |
| 34                                        | 35   | 2       | TC measurement (Control sensor), 1th byte | Signed Int16   |                                        |     |   |   |   |   |   | scale factor 10, Degrees Celcius |            |            |
| 35                                        | 36   | 2       | TC measurement (Control sensor), 2th byte | Signed Int16   |                                        |     |   |   |   |   |   | scale factor 10, Degrees Celcius |            |            |
| 36                                        | 37   | 2       | TL measurement (Limit sensor), 2th byte   | Signed Int16   |                                        |     |   |   |   |   |   | scale factor 10, Degrees Celcius |            |            |
| 37                                        | 38   | 2       | TL measurement (Limit sensor), 2th byte   | Signed Int16   |                                        |     |   |   |   |   |   | scale factor 10, Degrees Celcius |            |            |
| 38                                        | 39   | 2       | TH (Heat Sink) temperature, 1th byte      | Signed Int16   |                                        |     |   |   |   |   |   | scale factor 10, Degrees Celcius |            |            |
| 39                                        | 40   | 2       | TH (Heat Sink) temperature, 2th byte      | Signed Int16   |                                        |     |   |   |   |   |   | scale factor 10, Degrees Celcius |            |            |
| 40                                        | 41   | 2       | GFC measurement, milliameres, 1th byte    | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, mA              |            |            |
| 41                                        | 42   | 2       | GFC measurement, milliameres, 2th byte    | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, mA              |            |            |
| 42                                        | 43   | 2       | L1 load current, amperes*10, 1th byte     | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, A               |            |            |
| 43                                        | 44   | 2       | L1 load current, amperes*10, 2th byte     | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, A               |            |            |
| 44                                        | 45   | 2       | L2 load current, amperes*10, 1th byte     | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, A               |            |            |
| 45                                        | 46   | 2       | L2 load current, amperes*10, 2th byte     | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, A               |            |            |
| 46                                        | 47   | 2       | L3 load current, amperes*10, 1th byte     | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, A               |            |            |
| 47                                        | 48   | 2       | L3 load current, amperes*10, 2th byte     | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, A               |            |            |
| 48                                        | 49   | 2       | L1 power, kilowatts*10, 1th byte          | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, kW              |            |            |
| 49                                        | 50   | 2       | L1 power, kilowatts*10, 2th byte          | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, kW              |            |            |
| 50                                        | 51   | 2       | L2power, kilowatts*10, 1th byte           | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, kW              |            |            |
| 51                                        | 52   | 2       | L2 power, kilowatts*10, 2th byte          | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, kW              |            |            |
| 52                                        | 53   | 2       | L3 power, kilowatts*10, 1th byte          | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, kW              |            |            |
| 53                                        | 54   | 2       | L3 power, kilowatts*10, 2th byte          | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, kW              |            |            |
| 54                                        | 55   | 2       | Total power, kilowatts*10, 1th byte       | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, kW              |            |            |
| 55                                        | 56   | 2       | Total power, kilowatts*10, 2th byte       | Unsigned Int16 |                                        |     |   |   |   |   |   | scale factor 10, kW              |            |            |
| 56                                        | 57   | 2       | Total Energy consumption, 1th byte        | Unsigned Int32 |                                        |     |   |   |   |   |   | scale factor 10, kWh             |            |            |
| 57                                        | 58   | 2       | Total Energy consumption, 2th byte        | Unsigned Int32 |                                        |     |   |   |   |   |   | scale factor 10, kWh             |            |            |
| 58                                        | 59   | 2       | Total Energy consumption, 3th byte        | Unsigned Int32 |                                        |     |   |   |   |   |   | scale factor 10, kWh             |            |            |
| 59                                        | 60   | 2       | Total Energy consumption, 4th byte        | Unsigned Int32 |                                        |     |   |   |   |   |   | scale factor 10, kWh             |            |            |