IEC 62056 – 21 –2002

Message formats

For a complete message format definition

REQUEST /? Device Address ! CR LF

IDENTIFICATION / XXX Z Ident CR LF

ACKNOWLEDGEMENT ACK0 Z Y CRLF

DATA READOUT STX DATA i CR LF ETX BCC

OPERAND SOH P 0 STX (d . d) ETX BCC

SOH P 0 STX (d . . d) EOT BCC

COMMAND SOH C D STX *a* a (d d) ETX BCC

optionally: SOH C D STX a . a (d d) EOT BCC

DATA STX (d . . d) ETX BCC

optionally STX (d . d) EOT BCC

ERROR STX (e . . e) ETX BCC

BREAK SOH B 0 ETX BCC

Examples of code usage:

|  |  |  |
| --- | --- | --- |
| **OBIS code** | | **Description** |
| **Active energy registers:** | | |
| **1.8.0** | | Positive active energy (A+) total [kWh] |
| **1.8.1** | | Positive active energy (A+) in tariff T1 [kWh] |
| **1.8.2** | | Positive active energy (A+) in tariff T2 [kWh] |
| **1.8.3** | | Positive active energy (A+) in tariff T3 [kWh] |
| **1.8.4** | | Positive active energy (A+) in tariff T4 [kWh] |
| **2.8.0** | | Negative active energy (A+) total [kWh] |
| **2.8.1** | | Negative active energy (A+) in tariff T1 [kWh] |
| **2.8.2** | | Negative active energy (A+) in tariff T2 [kWh] |
| **2.8.3** | | Negative active energy (A+) in tariff T3 [kWh] |
| **2.8.4** | Negative active energy (A+) in tariff T4 [kWh] |



