

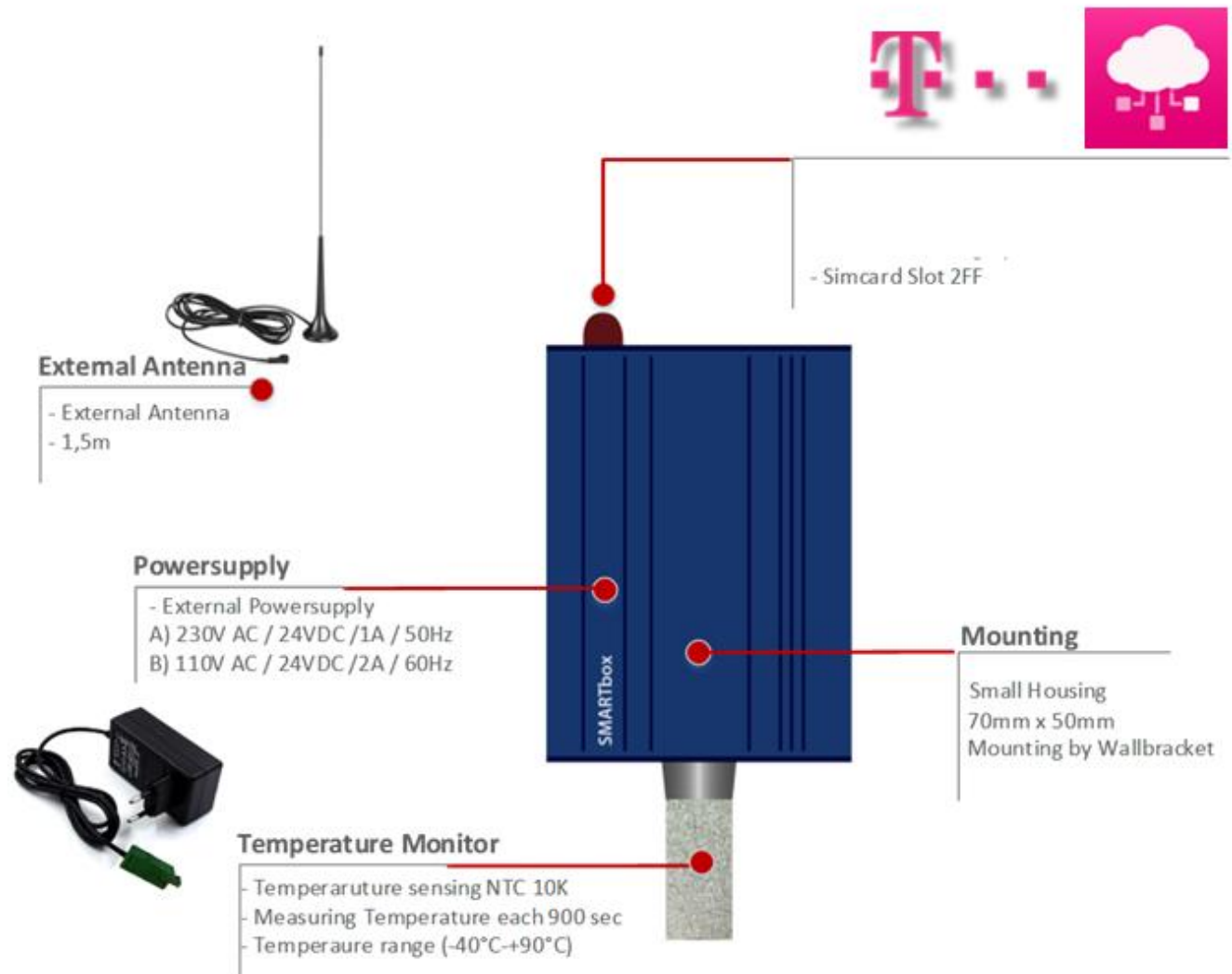
SMARTbox Mini *Temperature Monitor*

Code: MB200D02050

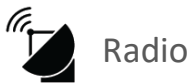
Smartbox Mini Temperature Monitor is a M2M Modem with integrated temperature sensor to measure temperature in a range of -40°C to 90°C in an IP20 environment. The temperature values are transmitted to the deviceCloud of A1 as well as the timestamp and an unique identifier for this measurement. The Device comes up with a LTE mobile Chipset from Telit ME910C1-WW.

SMARTBox Mini

Temperature Monitor



SMARTbox Mini Temperature Monitor



Radio

| | |
|---------------------|--|
| 2G | B2 B3 B5 B8 |
| NB-IoT/LTE-M | B1 B2 B3 B4 B5 B8 B12 B13 B18 B19 B20 B25 B28 B66 B71 B85 B103 |



Connectivity/Features

| | | |
|----------------|---|---|
| Layout | | |
| Sensors | Sensor Input Temperatursensor | K164NK010-10 NTC-Widerstand 10K 10% B57164-K103-K : TDK Electronics Range: -40°C to 90°C |
| LEDs | GSM RUN | Flashing- connected to mobile network - |
| USB | For programming, Logging and Trace the device | |



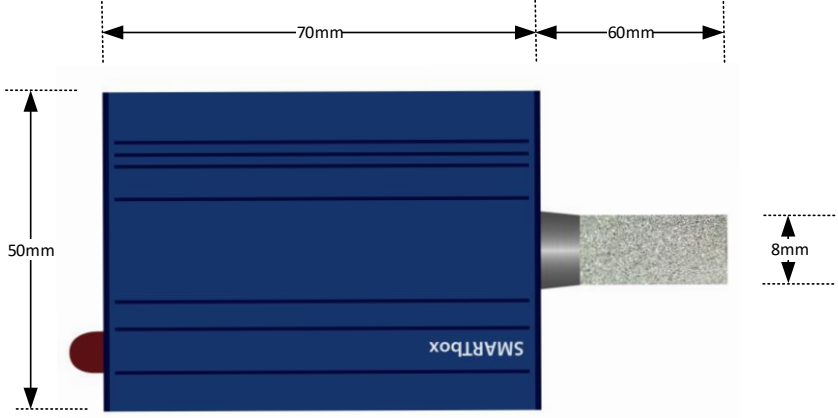

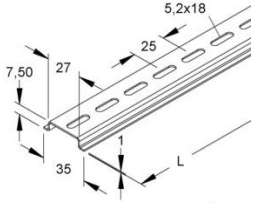
Cloud Connector



| | | |
|--------------------------|---|---------------------------------------|
| Online Operations | Remote Restart Configuration Change Transmitinterval from device to Cloud | |
| Communication | LWM2M | |
| Notifications | Realtime and Pending Operations | |
| Info | Operator, Cell ID, LAC, MNC, MCC, Signal strength | |
| Buffer | Only Realtime Measurements and Alarms | |
| OTA | RemoteUpdate Software | |
| | Measurements | Default 900 |
| | Signal strength | Is sent every 20 Min as a measurement |
| SMS | For Troubleshooting you can operate the device by SMS: Reboot | |




General

| | |
|------------------------------|---|
| Dimensions |  |
| Weight | 89g |
| External GSM Antenna | SMA Connector with 1,5m |
| Internal Power Supply | Nominal voltage range: 12-24 VDC, 10% Maximum continuous (average) supply power: 2.5 W Maximum continuous (average) supply current: 200 mA at 12V, 100 mA at 24V |
| External Power Supply |  <p>Power supply: Input: 110V-240V Output: DC24V 1A Cable length:1.5m End type: With two pin connector and cable housing Approved: CE AND UL</p> |
| Mounting | <p>Mounting by wall bracket in Steps</p> <ol style="list-style-type: none">1) Installation of DIN Rail Mount on the wall Hutschiene 35 x 15 x L=50 mm, gelocht  <ol style="list-style-type: none">2) Holder (already mounted on Gateway) |



3) Result:



| | |
|---|---|
| SIM Card Format | 2FF |
| Operating temp. | -20..60°C |
| Storage temp. | -40..85°C |
| Oper.humidity | Max. 85% |
| Storage humidity | Max. 85% |
| IP Class | IP20 |
| Approvals  | R&TTE / GCF / RED |
| Conformity Declerations | EMC-Directive 2014/30/EU EN 55022:2010 EN 55024:2010 IEC 61000-6-1:2005 IEC 61000-6-3:2011 R&TTE-Directive 2014/53/EU EN 301 511 V9.0.2 EN 301 908-1 V6.2.1 EN 301 908-2 V6.2.1 RoHS-Directive 2011/65/EU EN 50581:2012 |