INFRA 4100 Master Data logger with GSM/GPRS

The INFRA system is used to monitor construction activities, blasting, train traffic, road traffic, vibration in buildings etc.

INFRA 4100 is a complete digital data logger with high capacity data storage and flexible communication capabilities.

Data is automatically sent via GSM/GPRS to a dataserver on the Internet. Data is sent on scheduled times and when a trigger has occurred.

SMS with event data can be sent directly from the instrument to a number of cell phones.

Project administration, data presentation, reports, analysis and graphs can easily be performed with INFRA Net Manager & INFRA Web.

INFRA Master features:

- Low Power consumption
- "Plug & Measure" installation of sensors
- Up to 256 Mbyte Compact Flash memory
- Up to 16 sensors per INFRA Master
- External power for long term unattended monitoring
- Built-in GSM/GPRS modem
- Extremely rugged design
- Remote Control from INFRA Net Manager
- No calibration needed
**Technical Data**

**DATA INPUT**
Bus cable for data communication and power supply for connected sensors. The sensors are connected with a T-coupling and a drop cable. Up to 16 sensors can be connected. All sensors and sensor converters have an industrial type M12 connector. Maximum total cable length 500 meter. Maximum drop cable length 5 meter.

**MEMORY**
Compact Flash memory card typ II. 256 MB standard. All data is stored with FAT filesystem and can be read on any Windows PC. A 4-channel recording of 10 seconds duration needs approximately 128 kByte of storage space. The standard memory will store 2000 10-seconds event.

**DATA TRANSFER**
All data files are buffered in a “spool directory” on the memory card and are sent when the next GSM communication takes place. If GSM communication is not possible data are stored for transfer at a later time.

**DATA SMS**
INFRA 4100 can send an SMS to a number of cell phones with data from a triggered event.

**SERVICE SMS**
SMS can be sent directly from INFRA 4100 to service personnel when battery voltage is low, if sensors are lost/disconnected or when memory is close to full.

**POWER SUPPLY**
12V 10 Ah lead-acid battery. Can be charged in place or changed without interrupting ongoing monitoring. INFRA 4100 supplies power to all connected sensors.

**MENU SYSTEM**
All sensor settings can be changed via INFRA 4100 keyboard. Data from sensors can also be displayed.

**DISPLAY**
Auto off 4 lines, 20 characters per line standard. Operating temperature –20 to + 50 °C (-4 to 122 °F)

**SOFTWARE**
Software updates via RS-232

**CALIBRATION**
No calibration needed.

**REMOTE OPERATION**
Instrument and sensor settings can be changed from any PC using INFRA Net Manager and an Internet connection.

**MECHANICAL**
Watertight plastic PELI-case.
**Dimension:** 150x300x350mm (5.9 x 11.8 13.8 in) (excluding connector and standoffs)
**Material:** Copolymer polypropylene
**Protection class:** IP68 with lid closed
**Weight:** 7.2 kg (16 lbs) battery included

**CE APPROVAL**
Fulfills EMC demands according to:
EN 301 489-1 V1.8.1 (2008)
EN 301 489-7 V1.3.1 (2005)
EN 61326-1 (2006)