A DATA LOGGER IN THE INFRA-SYSTEM

– INFRA Micro 4030/4060: Includes a 30Ah/60Ah enclosure

INFRA Micro Data logger with the possibility to connect an external modem

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

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

Data is automatically sent via the internal or external modem to a database 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.

INFRA Micro features:

Low Power Consumption	Built-in GSM/GPRS modem
"Plug & Measure" installation of sensors	Possibility to connect an external modem
Up to 256 Mbyte CompactFlash memory	Extremely rugged design
Up to 16 sensors per INFRA Micro	Remote Control from INFRA Net
External power for long term unattended monitoring	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 has an industrial type M12 connector Maximum total cable length 500 meter. Maximum drop cable length 5 meter.

MEMORY

CompactFlash memeory 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 around 128 kByte of storage space. The standard memory will store 2000 10-seconds events.

DATA TRANSFER

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

DATA SMS

INFRA 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 to service personnel when battery voltage is low, if sensors are lost/disconnected or when memory is close to full.

POWER SUPPLY

External lead-acid battery. INFRA supplies power to all connected sensors.

MENU SYSTEM

All sensor settings can be changed via INFRA keyboard. Data from sensors can 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 and an Internet connection.

MECHANICAL

Watertight die cast metal box

Dimension: 180 x 140 x 70 mm (7.1 x 5.5 x 2.8 in) (excluding connectors)
Micro material: Aluminium alloy
Weight: 7.3 kg kg (16 lbs) battery not included

OPTIONAL ENCLOSURES SIZE

4030: Enclosure for 30 Ah battery
Dimension: 370 x 319 x 179 mm (14.6 x 12.2 x 6.7 in)
Material: Polycarbonate

4060: Enclosure for 60 Ah battery
Dimension: 424 x 374 x 204 mm (16.5 x 14.6 x 7.9 in)
Material: Polycarbonate

POSSIBLE MODEMS THAT CAN BE CONNECTED

Telit GT863-3GG

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)