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
- “Plug & Measure” installation of sensors
- Up to 256 Mbyte CompactFlash memory
- Up to 16 sensors per INFRA Micro
- External power for long term unattended monitoring
- Built-in GSM/GPRS modem
- Possibility to connect an external modem
- Extremely rugged design
- Remote Control from INFRA Net
- No calibration needed

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.
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
CompactFlash memory card type 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.

Software
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)

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)