

A DATA LOGGER IN THE INFRA-SYSTEM

INFRA Mini Data logger with GSM/GPRS

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

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

Data is automatically sent via GSM/GPRS to a datasever on the Internet. Data is sent on scheduled times and when an event 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 Mini features:

Low power / Long battery life

CompactFlash memory card

"Plug & Measure" installation of sensors

Up to 16 sensors per INFRA Mini

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 has 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 256 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

Internal alkaline batteries type LR20 (D-cell). Internal holder for 6 batteries.

An external power can be connected during monitoring. When the external power is removed INFRA Mini will directly switch to internal battery supply with no interruption in monitoring.

INFRA Mini supplies power to all connected sensors.

MENU SYSTEM

All sensor settings can be changed via INFRA Mini 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 Manager package and an Internet connection.

MECHANICAL

Watertight plastic PELI-case.

Dimensions: 130 x 250 x 270 mm (5.1 x 9.8 x 10.6 in)
(excluding connector and standoffs)

Material: Copolymer polypropylene
Protection class IP68 with lid closed

Weight: 3,8 kg (8,5 lbs) batteries included

CE APPROVAL

IFulfills EMC demands according to:

EN 301 489-1 V1.8.1 (2008)

EN 301 489-7 V1.3.1 (2005)

EN 61326-1 (2006)