

INFRA D10 Data logger

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

INFRA D10 is a digital data logger with high capacity data storage and flexible communication capabilities.

Data is stored on a local memory card before being communicated to the INFRA Net server when pre-defined thresholds are breached or at regularly scheduled communication intervals.

SMS and e-mails are sent from INFRA Net. SMS can also be sent directly from the data logger to personnel if sensors are lost/disconnected, when memory is close to full or when battery voltage is low.

Project administration, data presentation, reports, analysis and graphs can easily be performed with INFRA Net, a web-based project management tool.

5010 — INFRA D10 Li-ion batteries or on external power



INFRA D10 features:

Color display

Low power / Long battery life

External power for long term unattended monitoring

Built-in 4G modem with 3G and 2G fallback

Remote management in INFRA Net

Rugged design, IP67 protection class

No calibration needed on the datalogger

Micro SD memory card

"Plug & Measure"; A single INFRA D10 Micro data logger facilitates the installation of up to 16 sensor nodes measuring vibration, noise, dust, and more

Technical Data

DATA INPUT

Industrial bus cables are used for data communication and power supply to the sensors.

The sensors are connected with a T-coupling and a drop cable. Up to 16 sensor nodes can be connected. All sensors and sensor converters has an industrial type M12 connector. Maximum total cable length up to 800 meter.

MEMORY

Micro SD industrial memory card. 1 GB in standard configuration.

DATA TRANSFER

All data is buffered on the memory card and is sent when the next cellular communication takes place. If cellular communication is not possible, data is kept for transfer at a later time.

DATA SMS

SMS can be sent directly from the data logger to one or several recipients. Both SMS and e-mails can be sent from INFRA Net.

SERVICE SMS

SMS can be sent directly from INFRA D10 to service personnel when battery voltage is low, if sensors are lost/disconnected or when memory is close to full.

POWER SUPPLY

INFRA D10 uses li-ion batteries with an internal holder for 2 li-ion batteries. An external power can be connected during monitoring. When the external power is removed INFRA D10 will directly switch to internal battery supply with no interruption in monitoring.

INFRA D10 supplies power to all connected sensors.

DISPLAY

128*128 pixels color display.
Operating temperature -20 to + 50 °C (-4 to 122 °F)

FIRMWARE

Updates remotely or via USB

CALIBRATION

No calibration of the INFRA D10 data logger is required.

OPERATIONS

Remote: Devices can be operated remotely through INFRA Net software.

On site: All sensor settings can be changed via INFRA D10 display and keyboard or via mobile phone.

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 IP67 with lid closed

Weight: 3,3 kg (7,3 lbs) batteries 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)