

A DATA LOGGER IN THE INFRA SYSTEM

# INFRA D10 Micro Data logger

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

INFRA D10 Micro is a digital data logger with high capacity data storage and 4G communication capabilities (3G and 2G fallback).

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.

INFRA D10 Micro is powered by a lead-acid battery which can be charged from an external power source. Option for solar panel door is available.

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.



### Option for solar panel door

A 10W Solar panel door for INFRA Micro provides power for prolonged or continuously running monitoring requirements

## INFRA D10 Micro features:

**“Plug & Measure”;** A single INFRA D10 Micro data logger facilitates the installation of up to 12 sensor nodes measuring vibration, noise, dust, and more

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

**Remote management in INFRA Net**

**External power for long term unattended monitoring**

**Option for solar panel door**

**Color display**

**Rugged design, IP67 protection class**

**Watertight cable connection for external power**

**No calibration needed on the datalogger**

# Technical Data

## DATA INPUT

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

Sensors are connected to the bus cable with a T-connector and a drop cable.

Industrial type M12 connectors are used for robustness.

Up to 12 sensor nodes can be connected. Maximum total cable length is 500 meters (1600 ft). Using Slow bus rate mod. maximum length is 800 meters (2600 ft). Maximum drop cable length is 5 meters (16 ft).

## MEMORY

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

## DATA TRANSFER

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All data is buffered on the memory card and is sent to the INFRA Net server on recording events or on the next scheduled cellular communication occasion.

## DATA SMS

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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

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

## POWER SUPPLY

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INFRA D10 Micro is powered by a lead-acid battery which can be charged from an external power source.

Recommended battery Sonnenschein A512/30 G6 or equivalent.

INFRA D10 Micro supplies power to all connected sensors.

## DISPLAY

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1.5 in, 128\*128 pixel graphical color display.

Operating temperature -20 to + 50 °C (-4 to 122 °F).

## FIRMWARE

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Updates via USB.

## CALIBRATION

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No calibration of the INFRA D10 Micro data logger is required.

## OPERATIONS

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**Remote:** System can be operated remotely through INFRA Net software.

**On site:** All sensor settings can be changed via the display and keyboard on the INFRA D10 Micro, or via INFRA Net directly on your mobile phone.

## MECHANICAL

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Watertight enclosure.

**Dimensions:** 390 x 350 x 200 mm (15.4 x 13.8 x 7.9 in) (including connectors, standoffs and handle)

**Material:** Polycarbonate

Protection class IP67 with lid closed.

**Weight:** 18 kg (40 lbs) with recommended battery

## CE APPROVAL

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Fulfills CE directive.