

A DATA LOGGER IN THE INFRA-SYSTEM

# INFRA Mini Data logger

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.

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.

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.

4000 – INFRA Mini alkaline batteries or on external power  
4001 – INFRA Mini Li-ion batteries or on external power



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## 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 3G modem with 2G fallback**

**Extremely rugged design**

**Remote Control from INFRA Net**

**No calibration needed**

# Technical Data

## DATA INPUT

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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

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Compact Flash 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 approximately 256 kByte of storage space. The standard memory will store 2000 10-seconds event.

## DATA TRANSFER

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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

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INFRA 4100 can send an SMS to a number of cell phones with data from a triggered event.

## SERVICE SMS

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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

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Internal alkaline batteries type LR20 (D-cell), internal holder for 6 batteries or li-ion batteries internal holder for 2 li-ion 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

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All sensor settings can be changed via INFRA Mini keyboard. Data from sensors can be displayed.

## DISPLAY

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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

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No calibration needed

## REMOTE OPERATION

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Instrument and sensor settings can be changed from any PC using INFRA Net package and an Internet connection.

## MECHANICAL

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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

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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)