

SatelLite50-U

Professional 2-channel universal data logger

Description

SatelLite50-U is a universal two-channel data logger for professional use.

SatelLite50-U has two inputs for 0-1V, 0-10V, 4-20,mA, 0-20mA and pulse. Signals can be connected in various combinations using Mitec's mini Smart Cables.

SatelLite50-U automatically detects the measuring range, type of incoming signal as well as its magnitude and unit, and then scales the signal accordingly.

SatelLite50-U has an aluminium case and is powered by a standard 1.5V battery that provides econonomical operation and ease of use. In addition, the sensors can be powered from the instrument's inbuilt battery.

SatelLite50-U is suitable for measuring pulses, power and current signals from sensors, instruments and transmitters along with other applications that require a high level of accuracy and durability.

It is ideal for measuring for trends in industrial processes, construction, water and waste-water in conjunction with service, operation and maintenance, research and general trouble-shooting.

SatelLite50-U is manufactured in Sweden by Mitec.

Advantages

- 2 parallel measuring channels
- 0-1V, 0-10V, 4-20mA, 0-20mA, pulse, contact.
- Automatic detection of input
- Simple operation and robust design
- Powered with a standard 1.5V battery
- Large non-volatile memory
- All Mitec's analysis programs can be used
- Swedish manufacture

Funktion

The Mitec SatelLite50-U data logger is powered by a standard 1.5V battery, which reduced operating costs to one-tenth of lithium battery alternatives. The instrument's low energy usage means the battery will last for up to one year depending on usage.

SatelLite50-U measures all standard industrial signals with 0.025% resolution and a total innacuracy of less than 0.15% within its temperature range.

Mitec's analysis programs automatically code the data with instrument identification to ensure full traceability and conformance to ISO9000 standards.

The built-in memory in the SatelLite50-U ensures that data will not be lost if the battery runs out. The memory can store up to 16,000 measurements (8,000 per measurement channel).

Mitec SatelLite data loggers are a part of the Mitec professional field measurment system. Measured data can be analysed with Mitec WinSat analysis software as well as with product-universal Mitec WinLog or Monitor software.



SatelLite50-U data logger



Technical Data SatelLite50-U

GENERAL

Number of measuring channels 2

Memory size 32kb non-volatile (EEPROM). Storage resolution 16 bits.

Number of measured values 8,000 per measuring channel (Total approx. 16,000).

Clock Crystal controlled, date and time. Automatic correction from computer.

Registration interval 62.5ms (16Hz), 125ms (8Hz), 250ms (4Hz), 500ms (2Hz), 1, 2, 5, 10, 15, 30sec, 1, 2,

5, 10, 15, 30min, 1, 2, 4, 6, 8, 12, 24hrs

Measuring frequency

Selection of different levels for each registration interval.

Power supply

1x 1.5V battery size LR6 (alkali). R6 and FR6 can also be used.

External power

1.1 to 2.0 V via 4-pole modular contact (communications port).

Battery life span with LR6 1 month to 1 year depending on registration interval, measuring time and temperature.

Ambient temperature -20 to +50°C. Non-condensing. EC standard EN50081-1, EN50081-2, EN50082-1.

INPUTS

Types 0-1V, 0-10V, 4-20mA, 0-20mA, voltage, puls, contact connection Input selection Automatic detection with Mitec's cables in MS-xx200 series.

Resolution 12 bits (0.03%). (Measurement values stored with 16 bits).

Total inaccuracy without sensor < 0.14% within full temperature range

Maximum input voltage +-20V DC

Voltage, Current

Measuring range 0-1V DC and 0-10V DC, 0-20mA and 4-20mA

Internal resistance 1V-range > 20 Mohm, 10V-range > 0,8 Mohm. Current 50 ohm

Pulse

Input type Contact closure (gold-plated) or voltage pulse 4-24V.

Max. frequency in 16 Hz Min. pulse length 32mS

FUNCTIONS

Start and stop conditions Adjustable, time start, manual start and stop.

Storage method Mean value, adjustable number of measurements per registration.

Reading and setting Via PC and Mitec analysis software WinSat, WinLog or Monitor V 1.70 or higher.

COMMUNICATION

Computer RS232, 19200 baud. Control signal from the computer.

Indication LED. A flash every 4th second while logging is in progress.

MECHANICAL

Contact device 4-pole modular contact, 4/4 as well as 8-pole modular contact, 8/8

Casing Powder-coated extruded aluminium 75x 60x33 mm.

Degree of protection IP65. (excluding contact plug). Weight 130g including battery.

Ordering information

Article number: SAT50-U

Delivery includes: Mitec SatelLite50-U data logger with battery

English manual

Accessories: Mitec WinSat, WinLog or Monitor analysis software

PC-cable LPC-6/1 to PC. Signal cable, see table

Cable no.	Range / function
MS-UD202	0-10V / 0-10V
MS-UD201	0-10V / 0-1V
MS-IU200	0-10V / 4-20mA
MS-IU201	0-10V / 0-20mA
MS-DU200	0-10V / pulse
MS-DU201	pulse / 4-20mA
MS-GT200	CO ₂ , 10000 ppm, Temp 0-50 °C
MS-GT201	CO ₂ , 4000 ppm, Temp 0-50 °C

We reserve the right to make technical improvements without notice

Copyright © Mitec Instrument AB. Dok.no. C10024 Rev 0

Visiting address: Västra Storgatan 18, Säffle, Sweden

Tel.: +46 53316050, Fax: +46 53316045 info@mitec.se www.mitec.se