

Satelite-U

One-channel datalogger with universal inputs

Description

Satelite is a compact one channel datalogger with inputs for current, voltage and pulses.

Satelite is enclosed in a sturdy aluminium casing and powered by a common 1.5 V battery. This ensures good economy and simple handling.

The collected information can be presented by any one of Mitec's Windows programs WinSat, WinLog or Monitor.

Satelite is meant for registration of signals from different sensors with a current or voltage output, e.g., pressure, level, temperature, humidity, gas analysis, etc. Flow and energy meters with a pulse output can also be connected as well as current clamps.

Satelite is designed for use in research, general investigations, operation and maintenance.

Satelite is manufactured in Sweden by Mitec.

Features

- Sturdy design
- Powered by a common 1.5 V battery
- Large memory
- Universal inputs
- 0-1 V, 0-10 V, 4-20 mA, pulses
- High accuracy and resolution
- All analysis programs from Mitec can be used
- Made in Sweden

Function

The built-in electronics is powered by a single standard 1.5 V battery. This reduces the battery cost to 1/10 compared to the special Lithium batteries that normally are used by similar instruments of other

makes. The power consumption is low and a battery can last up to a year depending on how the measurement is done.

The sensors are connected with a cable equipped with a multi-pole contact device, a so called modular contact. Different cables are used for different input signals and the instrument will configure itself automatically.

The Mitec analysis programs will automatically mark the data with instrument ID for full traceability according to the requirements in ISO 9000.

Satelite has a built-in non-volatile data memory, therefore it will not lose its information if the battery runs out. There are two different memory sizes available, for 4,500 or 20,000 measured values.

Satelite is part of the Mitec system for professional data acquisition. The measured data can be analyzed by WinSat or any of our standard programs WinLog or Monitor. The two last programs can also be used with other products from Mitec.



Satelite-U data logger

Technical Data Sat-U

GENERAL

Number of measuring channels	1
Memory size	8k or 32k byte. 8k memory is standard, the others are options
Resolution storage	12 bits
Number of measured values	4,500 or 20,000.
Clock	Crystal controlled, date and time.
Registration interval	On time: 0.25, 0.5, 1.2, 5, 10, 15 or 30 secs. 1, 2, 5, 10, 15 or 30 min. 1, 2, 4, 6, 8, 12, or 24 hours
Measuring frequency	Optional for each registration interval
Power Supply	1.5 V battery LR6 (alkali) or Lithium size AA
Battery life span	1 month up to 1 year. (Depending on registration interval, measuring time and ambient temperature)
Ambient temperature	-20°C to +50 °C / -4° to +122°F. No condense.
EU standard	EN50081-1, EN50081-2, EN50082-1

INPUTS

Types	Voltage DC, Current DC, pulses
Input selection	Automatic detection.
Linearising	Automatic
Measuring ranges analogue inputs	0-1V DC, 0-10V DC, 0-20 / 4-20 mA DC
Inaccuracy	0-1V range $\pm 0.4\%$, range 4-20mA and 0-10V $\pm 0.6\%$
Input type pulse	potentialfree contact, open collector or voltage 4-24V DC
Measuring range pulses	0-4 Hz
Minimum pulse length	30 ms

FUNCTIONS

Start and stop conditions	Adjustable, time and manual start. Time, manual and memory full stop
Storage method	Mean value, adjustable number of measurements per registration.
Reading and setting	Via PC and one of the Mitec programs WinSat, WinLog or Monitor.

COMMUNICATION

Computer	RS232, 9600 baud. Control signal from the computer.
Indication	LED. One flash every 4:th second while logging is in progress.

MECHANICS

Contact device	4 pole modular contact, 4/4 and 6 pole modular contact, 6/6
Box	Aluminium 60 x 50 x 30 mm / 2.36 x 2 x 1.2 in.
Weight	80 g / 0.18 lbs including battery.

Ordering information

Article number:	Sat-U/8, 4,500 measured values	
	Sat-U/32, 20,000 measured values	
The delivery includes:	1 Datalogger Satelite-U including alkaline battery	
	Manual in English	
Accessories:	WinSat, WinLog, Monitor	Analysis program for PC
	LPC-7	Cable for PC
	MS-UD101	Cable 0-1 VDC
	MS-UD102	Cable 0-10 VDC
	MS-ID100	Cable 0-20 / 4-20 mA DC
	MS-DP100	Cable for pulses

We reserve the right to make technical improvements without notice

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