

SATEL® MINI-LINK

Pulse Counter and I/O-converter for wireless applications

SATEL MINI-LINK is a compact, cost-effective member of the SATELLINK product group of I/O converters. Together with the SATELLINE-1870 radio modem it provides a handy tool for setting up wireless control and surveillance applications based on pulse counting and transfer of digital I/O-information.

The MINI-LINK is a versatile converter, equipped with a pulse counter input and two digital inputs and outputs. It is connected directly to the SATELLINE-1870 radio modem through an RS-232 serial interface. The pulse counter is used for on-line control of e.g. water, electricity and gas consumption, while the I/O-converter is used for transfer of contact information and readings of field instruments like gauges. The MINI-LINK is designed to receive pulse information in the Multipoint mode only, whereas I/O digital status information can be transferred in both Multipoint- and Point-to-Point systems.

In a Multipoint application, various information from a number of sub-stations is gathered to the master station.

The MINI-LINK has two relay outputs. The combination of a pulse counter and digital I/O-converter makes the system flexible and versatile. Digital I/O ports can be used for driving motors and controls, at the same time that the pulse input port is used for metering other information.

In the Point-to-Point mode any change of status in a digital input triggers a transmission in a few milliseconds.

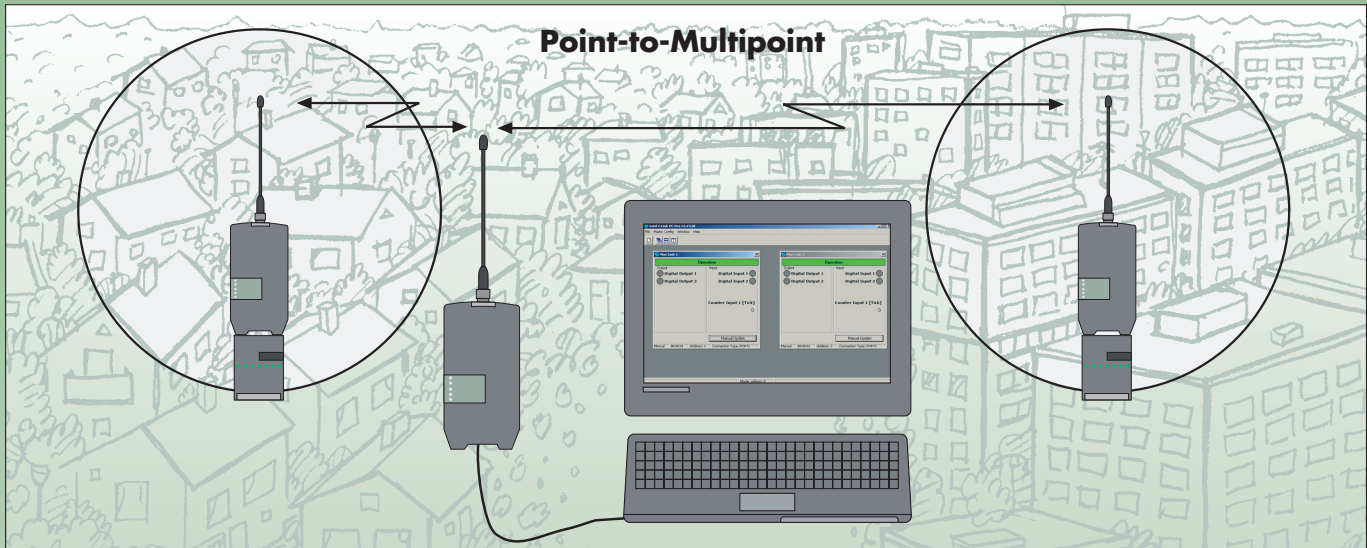
Depending on the topology of the area wireless working distances can vary from tens of metres up to a few kilometres.



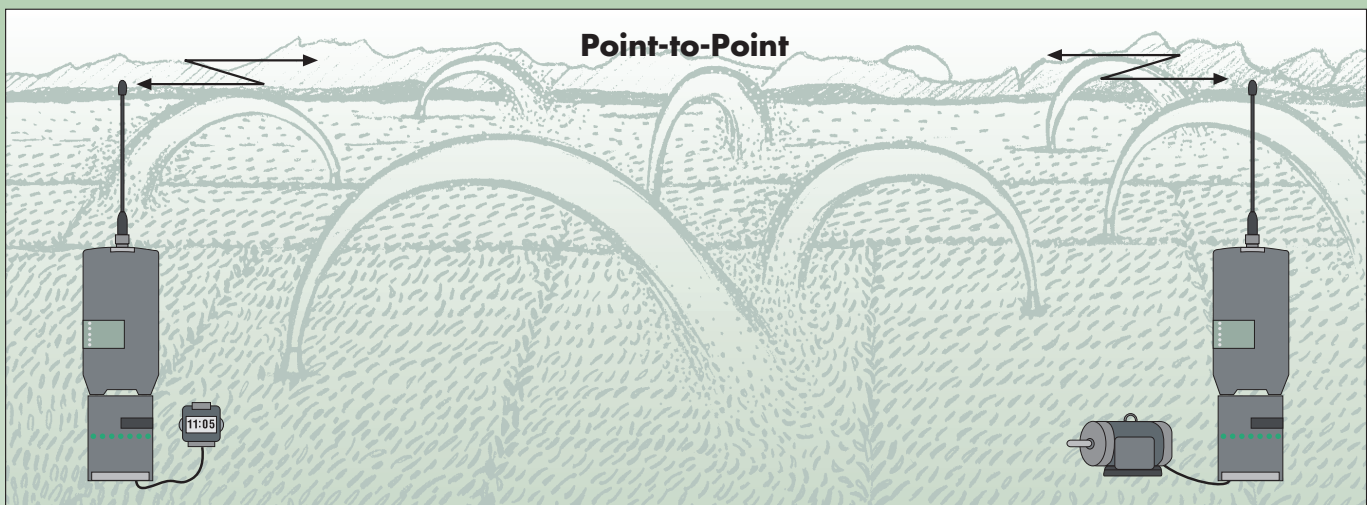
Key features:

- 2 digital I/O-ports, solid state relays
- fast pulse counter input
- point-to-point or multipoint systems
- screw connectors to terminal
- small and cost effective
- ideal for remote controlling systems

SATEL Oy is a Finnish electronics and telecommunications company that specialises in wireless data communications. It designs, manufactures and markets radio modems for data and alarm transfer systems. The main user groups include industrial companies, public organisations and private persons. Today Satel is one of Europe's leading manufacturers of narrow-band radio modems.



Remote reading of energy and water meters of households and office properties in a densely inhabited urban area is another feasible and labour-saving application. The readings of the electric meters are connected to the digital input of the MINI-LINK, converted to engineering units, transmitted to the aerial control station through the SATELLINE radio modem and finally stored by the master computer.



At a farm, the MINI-LINK can be used for automation of the control of irrigation machines. The devices are switched on individually, based on the reading of a temperature or light sensor.

A multitude of applications in every-day life

The MINI-LINK, working together with the SATELLINE-1870 radio modem, is designed for easy and cost-effective transfer of limited amounts of digital information, for control and surveillance purposes.

Numerous applications exist in the domains of industrial production, public utilities (water and energy supply systems) as well as in household use (security applications, business).

Technical Specifications • SATEL MINI-LINK

Feature	Typical Values	Note
Voltage	+9 – +30 VDC	
Temperature range	-25 ... +55 °C	
1 Pulse Counter Input	0...10 kHz.	Multipoint resistive 4-5 kΩ relay contacts
2 Digital Inputs	0-30 VDC	
2 Digital Outputs	0-30 VAC / 1 A	
Response time	< 500 ms	
Data speed	9600 bps	
Interface	RS-232 ± 15 VDC	
Alarm Output	0-30 VDC / 30 mA	active+ 30 mA
Indicators	ON/OFF, Digital I/O, Pulse-IN, Alarm	
Screw connectors	Inputs/Outputs	
Compatibility	SATELLINE-1870 radio modem	
Mounting	Wall mounting	
Casing	Painted steel	
Size	L 62 x W 57 x H 15 mm	
Weight	60 g	

Manufacturer:



Satel Oy, Meriniitynkatu 17, P.O.Box 142, 24101 Salo, Finland
 Tel. +358 2 777 7800, fax +358 2 777 7810, E-mail info@satel.fi
 www.satel.fi

Disrtibutor :

