

SATEL® i-LINK

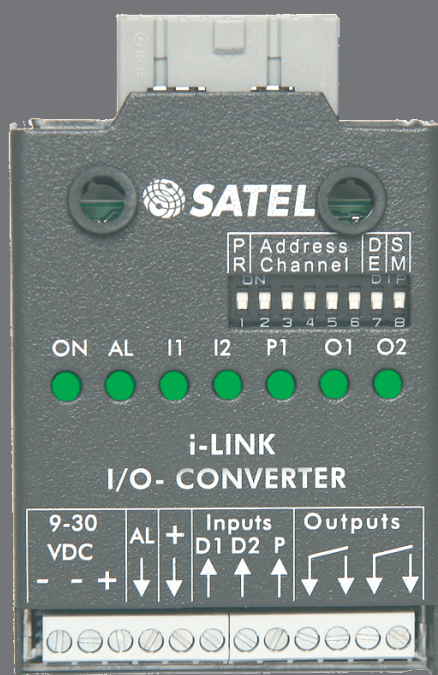
Pulse counter and I/O-converter

Wireless World – Local Solution

SATEL i-LINK is a compact and cost-effective member of the SATELLINK product group of I/O-converters. Together with the SATELLINE-1870, -1870E or -1915 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 i-LINK is equipped with a pulse counter input and two digital inputs and outputs. It is connected directly to the SATELLINE-1870, -1870E or 1915 radio modem through an RS-232 serial interface. The i-LINK is designed for easy and cost-effective transfer of information for multitude applications in our every-day life. 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).

In order to offer even more flexibility, Modbus compatible version is available too.



With SATEL radio modems, setting up a local data transfer network is quick and cost effective. Your wireless network is independent and free of operator services. The cost of operation is either free of charge or fixed, depending on the frequency used. SATELLINE radio modems are type-approved in over 50 countries. For the latest information, please visit our website www.satel.com.

SATELLINE radio modems are always on line, and provide reliable, real-time data communications over distances ranging from tens or hundreds of metres up to around 80 kilometres. Thanks to a store and forward function, any radio modem in a network can be used as a master station, substation and / or repeater.

SATELLINE radio modem networks are flexible, easy to expand and can cover a wide variety of solutions from simple point-to-point connections to large networks comprising hundreds of modems. Even for expanded networks, only one operating frequency is required.

With over 20 years of experience, SATEL Oy has grown into one of the leading radio modem manufacturers in the world. As a result of our persistent and innovative work in both product design and international marketing, we now offer an extremely large selection of radio modems, and operate through an extensive and skilled distributor network all over the world.



Pulse counter and I/O-converter for wireless applications

The i-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, -1870E or -1915 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 i-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. In the Point-to-Point mode any change of status in a digital input triggers a transmission in a few milliseconds.

The i-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.

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

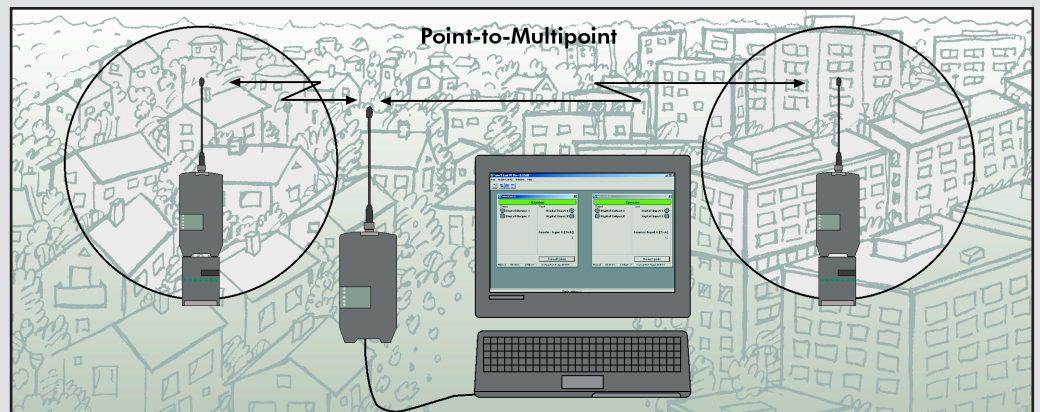
Technical specifications SATEL i-LINK

Operating Voltage	+9 ... +30 Vdc
Temperature Range	-25 °C ... +55 °C
1 pulse counter input	0 ... 10 kHz
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, Analog / digital IN/OUT, Alarm
Compatibility	SATELLINE-1870, -1870E and -1915
Screw connectors	Inputs / outputs
Mounting	Wall mounting
Housing	Painted steel
Size L x W x H	62 x 57 x 15 mm
Weight	60 g

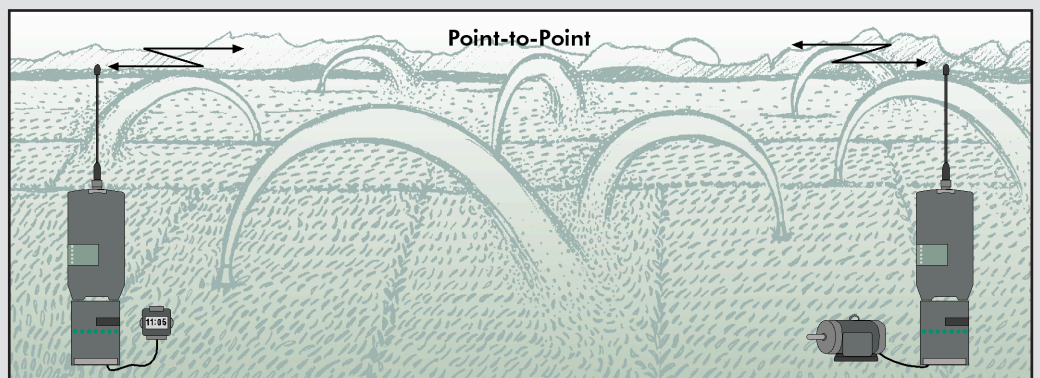
Values are subject to change without notice.

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 i-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 i-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.



Manufactured:



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