

SATEL® C-LINK 100

Versatile I/O Converter and Pulse Counter

The C-LINK complements the SATELLINK product line featuring a digital I/O converter with a pulse counter. Together with the SATELLINE radio modem it provides a multipurpose tool for a wide range of monitoring, metering and process control applications.

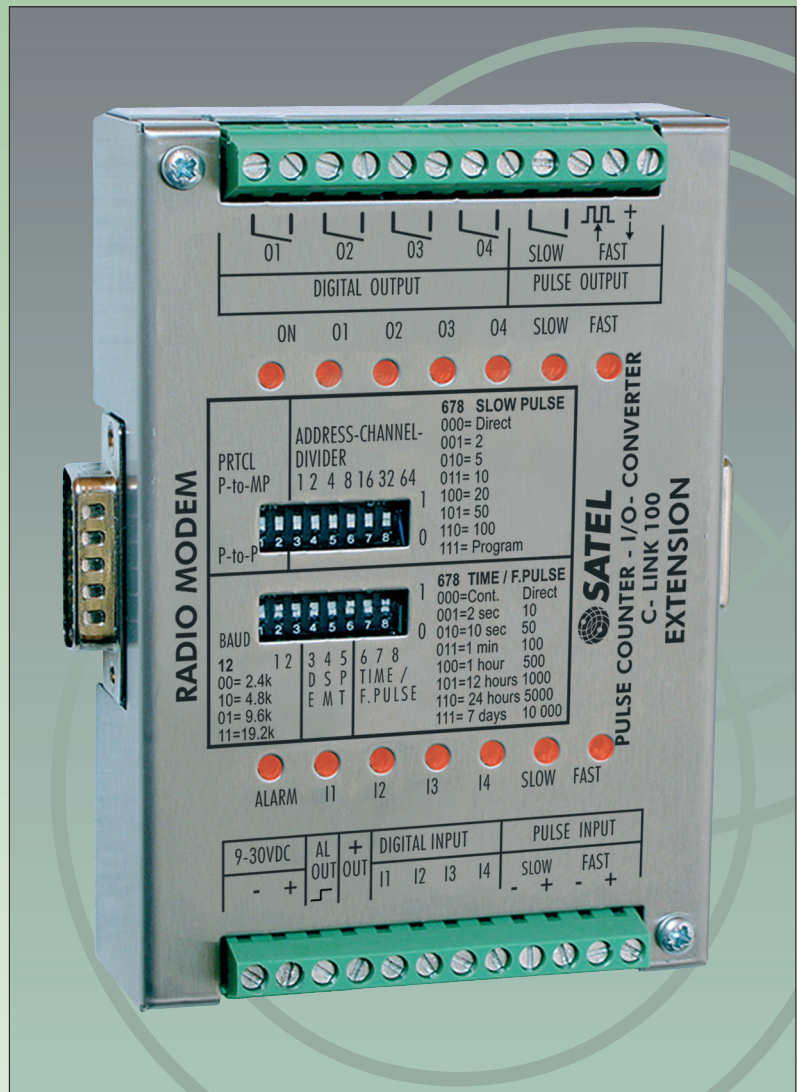
The C-LINK is used for receiving and transmitting recorded pulses and digital status information through an RS-232 serial interface. The 4 digital inputs sense and receive contact closure information and gauge readings, while the pulse counter senses and counts pulses from pulse initiators.

In addition to 2 pulse inputs, the C-LINK is equipped with 2 pulse outputs. An output pulse is triggered by the pulse counter, either time based at given intervals or based on a preset pulse count. One of the outputs provides a slow pulse suitable for relay-activated devices. The other output sends pulses at 10 kHz frequency. In Multipoint mode the C-LINK can also be programmed to send a fixed frequency between 0 and 10 kHz to alter the number of revolutions of a process machine.

Versatility and capacity

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 pulse information related to e.g. liquid flows or water, energy or gas consumption.

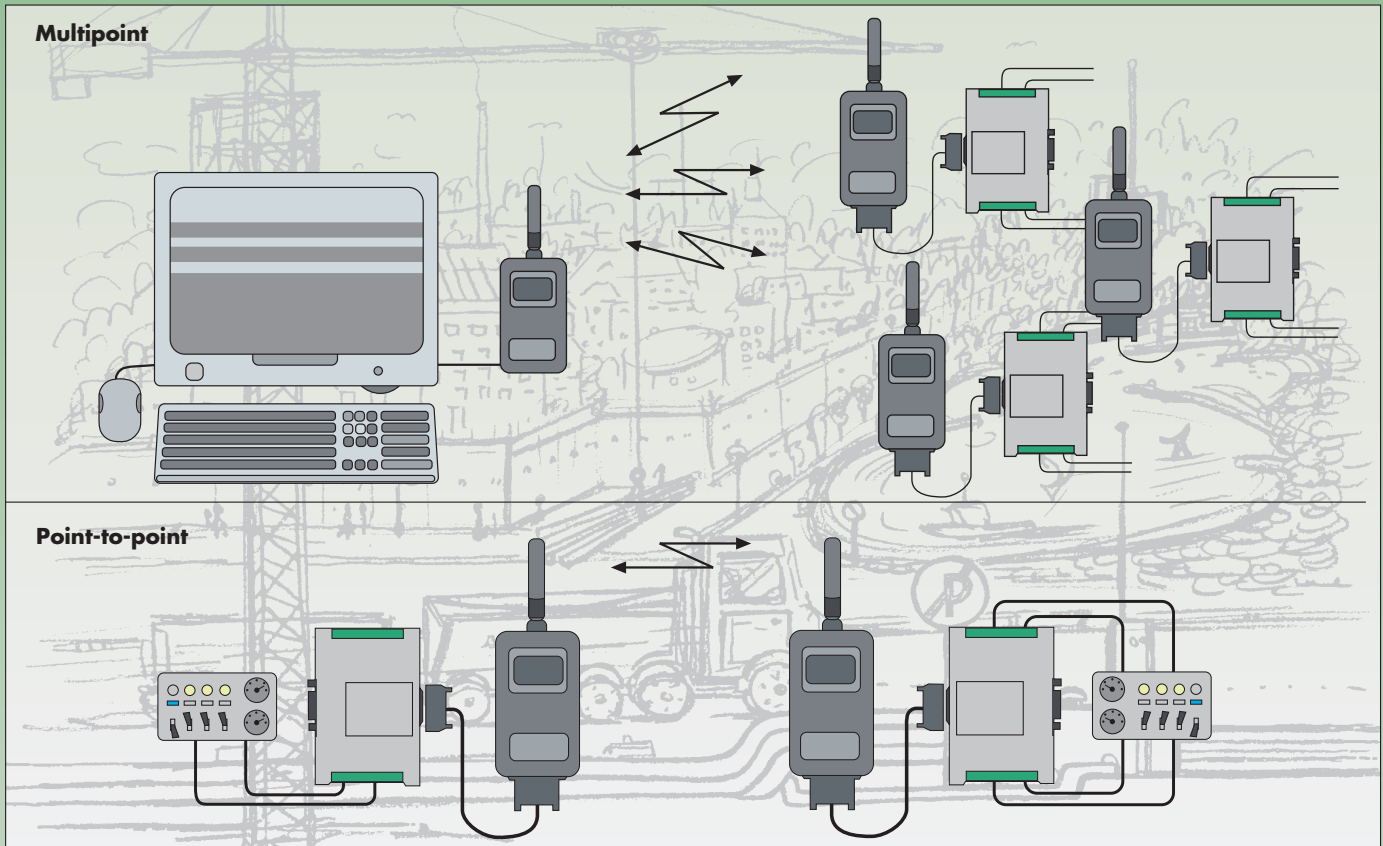
For further capacity and functions, plug-in extension units with additional digital and analogue I/O connections are available.



Key features:

- 4 digital I/O-ports, solid state relays
- slow and fast counter inputs and outputs
- time based pulse transmission
- transmission at programmed count
- point-to-point or multipoint 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.



Point-to-Point application

In a typical point-to-point application, two C-LINK 100 units can be used for monitoring valve positions or other system status, metering flows or energy consumption and executing process control.

Multipoint application

In a multipoint application, various information from a number of sub-stations is gathered to the master station, where it can be saved in a log file or even routed to any sub-station. With the SATELLINE radio modems, setting up a wireless data communication system is easy and straightforward. Useful transmission ranges vary from hundreds of metres up to tens of kilometres, depending on topology.

Technical Specifications • SATEL C-LINK

Feature	Typical Values	Note
Supply Voltage	+9...+30 VDC	
Temperature range	-25...+55 °C	
2 pulse counters	0...5 Hz / 0...10 kHz.	
- minimum pulse width	5 ms / 10 µs	
2 Pulse Outputs	0...5 Hz 0...10 kHz	negative edge action 2A, open relay contact optoisolated selectable
Time based pulse count	cont...7 days	selectable
Value based pulse count	1...10 000 pulses	selectable
4 Digital Inputs	0-30 VDC	resistive 4-5 kΩ
4 Digital Outputs	0-250 VAC / 2 A	open relay contacts
Response time	< 500 ms	
Data speed	2400...19200 bps	
Interface	RS232 ± 15 VDC	
Alarm Output	0-30 VDC / 30 mA	active + 30 mA
Indicators	ON/OFF, Alarm, IN/OUT	
Screw connectors	Inputs/Outputs	
Extension units	I-LINK 200, I/O: 2 Analog/4 Digital I-LINK 300, I/O: 6 Digital	
Mounting	Wall mounting or DIN-rail	
Casing	Brushed steel	
Size	L 123 x W 85 x H 30 mm	
Weight	120 g	
Compatibility	SATELLINE radio modems: 2ASxE, 2ASc, 3AS-series, 1870	

Manufacturer:



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