

# SATELLINK® MODBUS I/O-CONVERTERS

## Wireless World – Local Solution

I-LINK 100 MODBUS	4 digital and 2 analog I/O-ports
C-LINK 100 MODBUS	4 digital and 2 pulse I/O-ports
i-LINK MODBUS	2 digital I/O-ports and a pulse Input

The MODBUS pulse counters and I/O-converters from SATEL Oy enlarge the SATELLINK product family. Together with SATELLINE radio modems they facilitate transparent transfer of pulses, contact information or analog signals from one location to another. In typical MODBUS systems the products can be used for the transfer of information between a Master station and several Slave stations.

Building your own application is now even easier than before! With the SATELLINK serie converters and SATELLINE radio modems you can transfer information on a switch position, pulses or the readings of a measuring gauge (analog or digital) from the point of surveillance to the control station and vice versa.



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](http://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.



## I/O Converter for SATELLINE Wireless Communication

### Modular Design

#### I-LINK 100 MODBUS

4 digital I/O-ports with built-in relays and 2 analog I/O-ports.

#### C-LINK 100 MODBUS

4 digital I/O-ports with built-in relays and 2 pulse counter I/O-ports.

#### i-LINK MODBUS

2 digital I/O-ports with built-in relays and 1 pulse counter input port.

For further capacity, extension modules I-LINK 200 and 300, equipped with analogue or digital I/O-ports, are available for I- and C-LINK series. A maximum of three extension modules can be added.

### Reliable Transmission Secured

Modbus I/O-converters have a special Safe Mode security setting. With the Safe Mode-command the user can define the state of the ports in case there is a failure in transmission.

### Wide Range of Applications

A combination of a SATELLINE radio modem together with SATELLINK MODBUS device offers you a handy tool for setting up a great number of applications. The most usual applications include telemetry as well as remote control and surveillance.

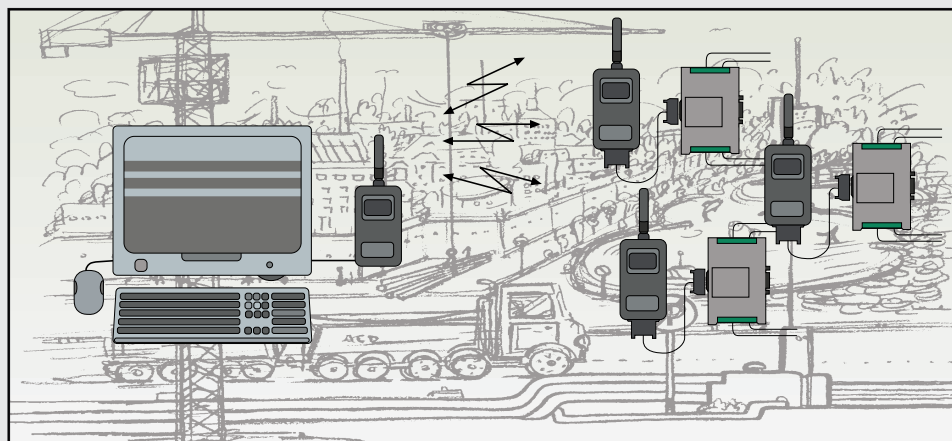
The radio modems are typically placed at locations to which cable connection is impossible or too costly to build. A wireless connection is flexible and easy to set up. The distance between the stations included in a wireless communications network is not decisive. Ordinary range of direct contact is a few kilometres, but distances up to tens of kilometres can be handled.

### Automatic Alarm

In case the message is not received in preset time, the device activates an alarm output and generates a visible alarm automatically.

Technical specifications SATELLINK MODBUS				
	I-LINK 100	C-LINK 100	i-LINK	Note!
<b>INPUTS</b>				
Digital Inputs	4 (0...35 Vdc)		2 (0...35 Vdc)	Resistive 4-5 kohm
Analog Inputs	2 (4...20 mA)	-	-	Resistive 165 ohm
Fast Pulse Inputs	-	1	1	Max. 10 kHz
Slow Pulse Inputs	-	1	-	Max. 5 Hz
<b>OUTPUTS</b>				
Relay Contacts	4	4	2	
0...250 Vac	Yes	Yes	No	
0...24 Vdc	Yes	Yes	Yes	
Analog Outputs	2 (4...20 mA)	-	-	
- Stability	±1%	-	-	For whole temp. range
- Resolution	12 bits	-	-	4096 steps
- Accuracy	<0.4 %	-	-	
Alarm Output	0...35 Vdc / 30 mA			High when active
INDICATORS	ON/OFF, A/D, IN/OUT, Alarm	ON/OFF, Digi, Pulse, Alarm		
<b>GENERAL</b>				
Housing	Stainless steel		Steel, Powder painted	
Size L x W x H, mm	123 x 85 x 30		64 x 47 x 14	
Weight, g	120		60	
Modem Compatibility	2ASxE, 3AS-serie, EASy, 1870, 1870E, 1915		1870, 1870E, 1915	
Connectors	D-15		16-pin, 2x8	
Extension Units	I-LINK 200 / I-LINK 300		-	
Data Speed	2.4 ... 19.2 kbps		9.6 kbps	
Input Voltage	+9 ... 30 Vdc			
Temp. Range	-25 ... +55 °C			
Response Time	< 500 ms			
Interface	RS-232 ±15 Vdc			
Contact Connectors	Screw Connector I/O-ports			
Mounting	Wall mounting			Optional DIN-rail

Values are subject to change without notice.



Manufactured:



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