

Itowa

Radio Remote Control Systems

35
1986 / 2021
Years

LEVEL ITW

Telecontrol, Remote Control, Teleprocessing



THE BEST PROPOSAL TO OPTIMIZE YOUR RESOURCES

LEVEL ITW series is composed by digital and analogue signal wireless transmission systems. These systems are suitable to remote control of pumping stations, water wells, tanks, warning signals, level controls or any other application where transmission and radio remote control procedures are required.

By using LEVEL ITW it is possible to get information in real time and give a quick response to any incidence. You achieve to optimize your resources, in terms of savings of time, personnel cost and corrective maintenance.



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The LEVEL ITW series offers different device models and configurations according to the requirements of each application. The versatility of all models allows to obtain the most optimal telematic solution in each case, allowing to from single point-to-point unidirectional links to multipoint and bi-directional links.

The devices are easy and quick to install and their usage offers many advantages such as:

- Wiring savings
- Increase of safety in the facilities
- Optimisation of the work of the operators
- Centralization of the control of the installation, avoiding the operator's movements
- Immediate detection of installation failures,...
- Option to send alarm SMS messages to a mobile phone

TECHNICAL SPECIFICATIONS Level ITW

Operating frequency range	UHF 406MHz (5 channels) or 411MHz (5 channels) / free band 869,400MHz - 869,650MHz
Channeling	25kHz - 12.5kHz
Modulation-Encoding	2-GFSK
Power transmission	From 10mW to 2W P.R.A.
Casing material	6-6 Polyamide and 30% fiberglass
Protection	IP-65
Dimensions	228 x 250,5 x 100mm
Power supply	According to models 230Vac/12Vdc, other voltages on request
Working temperature	-20°C to 60°C
Consumption	60mA at 230Vac 1,2A at 12Vdc (406-411MHz) / 770mA (869MHz)
Displaying	Digital model with LEDs on the front panel Analog and/or bidirectional model via LCD

Transmitter

LEVEL ITW 4 unidirectional	4 free potential optocoupled digital inputs
LEVEL ITW 8 unidirectional	8 free potential optocoupled digital inputs
LEVEL ITW 4A4D unidirectional	4 free potential optocoupled digital inputs, and 4 configurable analogue inputs (0-20mA / 4-20mA / 0-5V / 0-10V)
LEVEL ITW 4/4 bidirectional	4 free potential optocoupled digital inputs 4 digital outputs via 16A relay
LEVEL ITW 8/8 bidirectional	8 free potential optocoupled digital inputs 8 digital outputs via 16A relay
LEVEL ITW 4/4 AD bidirectional	4 free potential optocoupled digital inputs, 4 digital outputs via 16A relay and 4 configurable analogue inputs (0-20mA / 4-20mA / 0-5V / 0-10V)

Receiver

4 digital outputs via 16A relay and 1 fault relay
8 digital outputs via 16A relay and 1 fault relay
4 digital outputs via 16A relay and 1 fault relay 4 configurable analog outputs (0-20mA / 4-20mA / 0-5V / 0-10V) and optionally via RS-485 or RS-232 port through Itowa or Modbus protocol. 4 free potential optocoupled digital inputs 4 digital outputs via 16A relay
8 free potential optocoupled digital inputs 8 digital outputs via 16A relay
4 free potential optocoupled digital inputs 4 digital outputs via 16A relay and 4 configurable analogue outputs (0-20mA / 4-20mA / 0-5V / 0-10V) and optionally via RS-485 or RS-232 port through Itowa or Modbus protocol.



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Options and configurations



OPTIONS AND CONFIGURATIONS FOR LEVEL ITW

The LEVEL ITW range of devices offers several options that allow its performances to be extended. Likewise, the devices in this range can be configured in different ways, allowing the use of point to point links to small multipoint networks with centralisation in a Master point equipped with PC and SCADA software.

OPTIONS

The LEVEL ITW series can extend the basic features by adding different options to the device models.

KITGSM: Allows SMS messages to be sent to a mobile phone from any LEVEL ITW device.

- Formed by GSM module + Antenna + Software configuration
- Can be user-set up via software
- 32 Messages 64 characters
- 32 Events
- 32 phones of 16 digits



EXPANSIONS: By connecting expansion boxes via Rs485, the number of inputs and/or outputs can be increased.

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CONFIGURATIONS

The LEVEL ITW series offers different models of devices that allow different link configurations according to the needs of each application. Point-to-point links, star-type multipoint networks, repeater links,...

- POINT-to-POINT one-way links



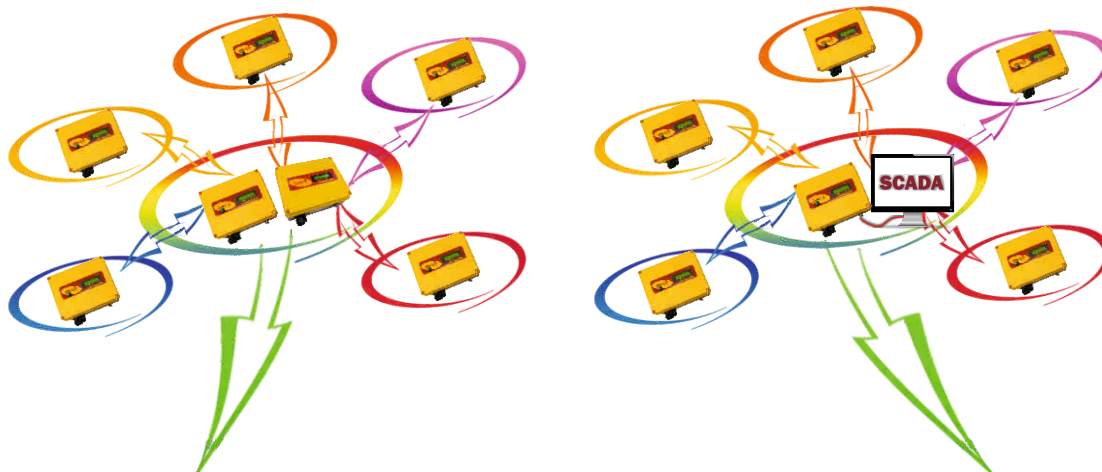
- POINT-to-POINT two-way links



- REPEATER Links



- Star-type MULTIPOINT networks



MULTI-POINT star-type links options

Master with I/O

- Maximum configuration 8ED/8SD/4EA or 4SA
- Expansions via Rs485

Master with PC + SCADA connection

Software SCADA ITWINCONTROL

- Editable by the user
- Graphics package
- Mobile APP
- SMS

Market SCADA software

- DRV Package (Itowa)

