



THE MOST EFFICIENT TELEMATICS SOLUTION

The STAR LEVEL range is composed by products that can transmit signals via radio, it is the best solution for telecontrol and teleprocessing . They can make the telecontrol of pumping, tanks, alarm signals, pressure controls o whatever that may require a transmission of signals via radio at distance.

The remote controls have an easy and quick installation way and their use have many advantages as the security of the facilities, the optimization of resources, saves on staff charges and maintenance, etc...

STAR LEVEL

Telecontrol, Remote control, Teleprocessing

The STAR LEVEL range have many configuration options. The range have different models offering the most efficient telematic solutions covering the customer's request, that can be an unidirectional link between two points, or bi-directional link between many points also can handle the digital signals or the analogical ones.

The digital model STAR LEVEL 4 have a version with independent power source from the transmitter through LOW POWER batteries, that can be used on links without electric power on the receiver.

TECHNICAL SPECIFICATIONS Star Level

Operating range frequency	406.425 MHz -411.550 MHz
Channels	10 spaced channels 25 kHz
Modulation	FM
Transmitter Power	de 10 mW a 2 W P.R.A.
Encoding	FFSK
Casing material	
LEVEL 4/ AD/ Analog.	Polyamide 6-6 y 30% fibre-glass
EXPAN / H8	Himel CRN
Protección	
LEVEL 4/ AD/ Analog.	IP-65
EXPAN / H8	IP-54
Feeding	Depending on models 220 Vca/12 Vdc/batteries/1 solar panel
Working temperature	-10°C a 50°C

TRANSMITTER

Inputs	
LEVEL 4	4 optocoupled digitals potential free
LEVEL ANALOGICO	4 analogical 4-20 mA
LEVEL SET TIME A/D	4 ó 3 optocoupled digitals potential free and 3 ó 4 analogicals de 4-20 mA
EXPAN	8 a 32 optocoupled digitals potential free
H8/7 H8/8 (*)	8 optocoupled digitals potential free
Emission rate	
LEVEL 4	309mA a 220Vac / 2,4A a 12Vdc
LEVEL 4 LOW POWER	2,4A a 12Vdc
LEVEL EXPAN	310mA a 220Vac / 3A a 12Vdc
LEVEL ANALOG	300mA a 220Vac / 2,1A a 12Vdc
LEVEL SET TIME A/D	309mA a 220Vac / 2,1A a 12Vdc
LEVEL H8	310mA a 220Vac / 3A a 12Vdc
Stand by rate	
LEVEL 4	60mA a 220Vac / 90mA a 12Vdc
LEVEL 4 LOW POWER	0mA a 12 Vdc
LEVEL EXPAN	50mA a 220Vac / 100mA a 12Vdc
LEVEL ANALOG	60mA a 220Vac / 4mA a 12Vdc
LEVEL SET TIME A/D	60mA a 220Vac / 90mA a 12Vdc
Leds	1 for input, 1 emission and 1 feeding

RECEIVER

Outputs	
LEVEL 4	4 digitals through relay de 16A + 1 relay for emission failure
LEVEL ANALÓGICO	4 analogicals de 4-20 mA + 1 relay for emisión failure
LEVEL SET TIME A/D	4 ó 3 optocoupled digitals potential free and 3 ó 4 analogicals de 4-20 mA
EXPAN	8 a 32 digitals through relay of 16 A
H8/7 (*)	7 digitals through relay
H8/8 (*)	8 digitals through relay
Leds	1 for each output, 1 reception y 1 feeding



Itowa
Radio Remote Control Systems

Faraday, 159 - 08224 TERRASSA (Barcelona) SPAIN
Telf. +34 93 733 9850 - Fax +34 93 789 1351
<http://www.itowa.com> - e-mail: info@itowa.com