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ONE WAY
REMOTE CONTROL SYSTEM
TAF DIGITAL



www.farell-i.com



ONE WAY REMOTE CONTROL SYSTEM **TAF DIGITAL**

Long range digital command

The TAF command sends by radio state changes in electrical contacts such as alarms and remote orders. It reaches long distances (up to 30 km) overcoming interferences.

Point to point system with 2, 5 or 8 channels transmitter and receiver. Custom multi-receiver system with 16, 24 or 32 channel receiver (digital outputs).

Battery power

12 Vdc, 230 Vac or battery-operated transmitter (8 alkaline batteries at 1,5 V). Batteries last more than 2 years. Receiver indicates alarm of low battery in transmitter one month in advance.

Pumping mode with double water rate

This is an specific operation mode for pumping control that adjusts pumping to water rates (simple or double) resulting in high energy saving.

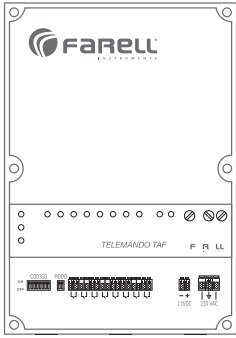
Easy to install

Ready for non specialists. It indicates radio signal level to point the antenna. It comes with all supplements: antenna, buoy, etc. No need to program.

Robustness

IP-65 box. Automatic output refresh every 5 minutes. Codified identification against interferences (65.000 codes). Electromagnetic immunity.

Produced under ISO 9001 regulations.



MAIN FEATURES

- _ 2, 5 or 8 channels command system.
- _ Transmitter, repeater and multi-repeater.
- _ Battery power transmitter (autonomy > 2 years).
- _ Double/simple water prices control for pumping.
- _ VHF and UHF frequency ranges with or without license.
- _ Long range: up to 30 km.
- _ JP-65 box.

APLICACIONES

- _ Pumping control.
- _ Security and alarms.
- _ Remote supervision.
- _ Remote control.
- _ Irrigation control.

DIRECT TECHNICAL SUPPORT:
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SIGNALS

TAF transmitter	2,5 or 8 digital inputs.
TAF receiver	2, 5 or 8 digital outputs. (correspondence to the transmitter inputs).
TAF multi-receiver	16, 24 or 32 digital outputs. (correspondence with multiple transmitters, factory customized).

OUTPUT REFRESH IN RECEIVER

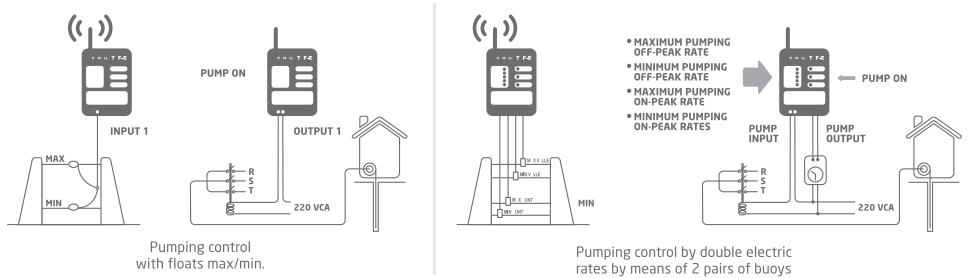
Per event	Instantly at all state changes in the transmitter inputs.
Periodic	Every 5 minutes (in addition to this at each event refresh).

RADIO

Frequency	VHF (138-174 MHz) UHF (406-470 MHz)
Reach	VHF ≤ 30 Km. UHF ≤ 20 Km.
Emission power	2 Watts (nominal) or 0,5 Watts (433MHz).
Legalization	License required (except free band 433 MHz and 0,5 Watts).
Antenna connector	VHF: SO-239. UHF: N female.
Antenna impedance	50 Ω
Identificación de emisor	Transmitter identification All equipments have a configurable code between 0 to 65.000.

OPERATION MODES

Normal mode	Univocal correspondence between transmitter input - receiver output.
Pumping mode	Pump and double rate control.
*TAF 2 channels	*Additional pump control output in receiver.
*TAF 5 channels	*Additional pump output and rate control input in receiver.



POWER SUPPLY

Transmitter	230 Vca Option: 8 alkaline batteries at 1,5 V (lasting > 2 years)
Receiver	230 Vca Option: 230 Vac with 12 Vdc in emergency cases.

PHYSICAL FEATURES

Dimension	335 x 203 x 88 mm (high x large x deep)
Weight	TAF transmitter: 1,9 kg (+ 0,5 kg when using batteries) TAF receiver: 1,9kg
Protection	IP-65
Subjection	Manual by screws.
Transmitter signs	LED showing input, supply and transmission status
Receiver signs	LED showing output, supply, pump, rate, and reception status plus low battery in transmitter sign.

ENVIRONMENTAL FEATURES

Temperature range	-15°C a +55°C
Humidity	95% a 40°C without condensation.

ENDORSMENT

Radio	ETS EN 300 113-2 (license bands) ETS EN 300 220-3 (433 MHz a 0,5 Watts - license-free bands)
EMC	ETS EN 301 489-5



ISO 9001
 Certification EC-1218/03



_Services

_Farell Instruments gives priority to engineering services, training and technical support. This is because we want our customers, both installers and end-users, to take the best advantage of the equipment we supply.

_Sales Department

- Budgets estimates and orders.
- Querying delivery times or methods of payment.
- Contacting partners who complement your skills or product requirements.
- Learning about our distribution network.
- Getting local technical and sales support.

_Technical Support Service

- Architecture and project viability evaluation.
- Technical support for integration and development.
- Repairs and post-sales services.
- Getting approvals to specific regulations for your market.

_Legalisation Service

- Management of licensing processes for radio networks.
- Legal information on the use of radio spectrum.

Farell Instruments, S.L.

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