

# TITAN

## T-HR-(WS/WF/CN)

### TECHNICAL SPECIFICATIONS

#### Electrical

- AC Supply voltage: 100 VAC ~ 240 VAC 50 / 60 Hz.
- Consumption: Max 3.0 W.
- Operating temperature 10 ~ 65 °C.
- Supply voltage in DC: 24 VDC (optional).
- Supply voltage in DC Solar cell: 5 VDC 10 W and 20 W. (optional).

#### Processor

- 32-bit DUAL CORE XTENSA® LX6.
- Clock speed: Between 160 MHz and 240 MHz.
- 520 kB SRAM memory.
- 4 MB FLASH memory.

#### Case

- Dimensions: 148 x 150 x 83 mm
- Certification: NOM
- Material: ABS Polymer
- Protection: IP66
- Storage Temperature: -20 ~ 80 °C
- Operating Humidity: 5 ~ 90% HR

#### Optimal Connectivity

- Model T-HR-WS:
  - Sigfox : RCZ2 902 MHz
  - Sigfox : RCZ4 920 MHz
  - Sigfox : RCZ1 868 MHz
- Model T-HR-WF:
  - Wi-Fi: 2.4 GHz b/g/n
- Model T-HR-CN:
  - GSM: 3G - 3.5G (Multicarrier)

#### Output Voltages

- 24 VDC - 80 mA.

#### Inputs and Protocols

- Hart 2-wire.
  - 1200 Baud, 8 bits, 1 odd parity, 1 stop bit.
  - Isolated signals with electromagnetic isolation.



Communication modes: query-response, Burst mode (response only without request).

Wiring topologies: point-to-point digital (serial/parallel).

Universal commands (common to all devices).

Common commands (used by many devices).

Bidirectional error checking.

Maximum monitoring of 3 selectable variables.

Configuration via Wi-Fi interface.

Conectores tipo abrazadera de presión sin tornillo (16~26 AWG).

- Screwless clamp-type connectors (16~26 AWG).
- 2 M16 IP66 gland connectors.
  - 1 Gland for voltage supply.
  - 1 Gland for Signals or Data.
- Straight SMA female connector (antenna).

#### Indicators LED's

- 1 Power (PWR) LED - Green.
- 1 System Start/Operation (RUN) LED - Red.
- 1 Communication (COM) LED - Red.
- 1 WiFi (WIFI) LED - Red.
- 1 AC Power Connection LED - Red.

TITAN | T-HR-WS with Hart protocol is a specialized device for wireless monitoring of variables in the field of electrical and electronic engineering:

- Communication with transmitters, sensors, meters, etc.
- Temperature, flow, level.
- Water, gas, and electricity consumption.
- Compatibility with multiple sensors.
- Data exchange and acquisition through HART protocol.
- Among others.