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KRAKEN

K-WM-(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: 5VDC 10 W and 20 W. (optional).

Proccesor

- 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 ~ 80ºC
- Operating Humidity: 5 ~ 90% HR

Optional Connectivity

- Model K-WM-WS:
  - Sigfox : RCZ2 902 MHz.
  - Sigfox : RCZ4 920 MHz.
  - Sigfox : RCZ1 868 MHz.
- Model K-WM-WF:
  - Wi-Fi: 2.4 GHz b/g/n.
- Model K-WM-CN:
  - GSM: 3 G - 3.5 G (Multicarrier).
- Model K-WM-LW:
  - LoraWan 868 MHz.
  - LoraWan 915 MHz.

Output Voltages

- 5 VDC - 500 mA.
- 24 VDC - 80 mA.

Inputs / Variables:

- CONDUCTIVITY (resolution 0.01 to 1 depending on the range):
  - 0 - 200.0 µS/cm (+/- 1 %).
  - 0 - 2000 µS/cm (+/- 1 %).
  - 0.00 - 20.00 mS/cm (+/- 1 %).
  - 0.0 - 200.0 mS/cm (+/- 1 %).
- DISSOLVED OXYGEN (resolution 0.01):
  - 0.00 - 20.00 mg/L (+/- 0.1 mg/L).
  - 0.00 - 20.00 ppm (+/- 0.1 ppm).
  - 0-200 % (+/- 1 %).
- TEMPERATURE (resolution 0.01 ºC):
  - 0.00 - 50.00 ºC (+/- 0.5 ºC).
- pH (resolution 0.01 pH):
  - 0 - 14 pH (+/- 0.1 pH).
- ORP (resolution 0.01 mV):
  - -1000 a +1000 mV (+/- 2 mV).
- TURBIDITY (resolution 0.01 - 1 NTU):
  - 0 - 4000 NTU (<5 % de la lectura).
- SODIUM HYPOCHLORITE (resolution 0.01ppm)
  - 0.05 - 200.00 ppm.
- x4 8 Pin Connectors (HE21 IP68):
  - 1 connector for power supply.
  - 3 Connectors for signals or data.
- Straight SMA female connector (antenna).

Indicator LED's:

- 1 Power LED (PWR) - Green.
- 1 Start/Operation LED (RUN)- Red.
- 1 Communication LED (COM) - Red.
- 1 Modbus data transmission LED (TX) - Red.
- 1 Modbus data reception LED (RX) - Green.
- 1 Voltage Supply LED (AC) - Red.

KRAKEN | K-WM-WS with modbus RTU/ASCII master protocol, it is a specialized device for wireless monitoring of water quality in treatment systems, pipes, among others. It can take reading of variables like:

- Hydrogen Potential (PH).
- Temperature.
- Dissolved oxygen (DO).
- Turbidity.
- Oxidation reduction potential (ORP).
- Conductivity. Sodium hypochlorite (Free chlorine).
- Among others.