Electron IoT App Pre-Registe now



Presentation Folder



Alerts and Notifications

Receive notifications about the status of your equipment In real time.



MONITOR EVERY DAY

You can easily monitor your equipment anytime you want in the palm of your hand.



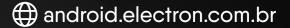
Dry-Type Transformers

Product intended for monitoring dry transformers.









> EP4-IoT Temperature Monitor

Data transmission, supervision and remote monitoring of your transformer without the need for complex and costly infrastructure.



Communication with multiple platforms

Technology and Innovation in Data Sharing









Communication protocols





Data Transmission







Certifications and Tests





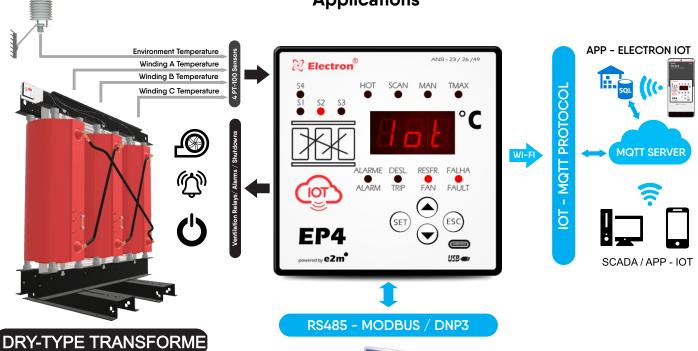




Application for monitoring

android 📥

Applications



Power Supply and Dimesions

- Compact Equipment 98x98x37mm, within DIN standards for panel mounting..
- Universal Power Supply 24-275 Vdc / Vac.

Integrated WIFI Modem

- •802.11 b/g/n/e/i Standards.
- WPA/WPA2/WPA-Enterprise, Safety Protocol.
- Encryption AES/RSA/ECC/SHA.
- Data Rate up to 150 Mbps.
- built-in antenna of 3 dBi (decibel isotropic).
- Transmission Power up to 21 dBm (decibel milliwatt).

Bluetooth

- Class 2 2,5 mW (4 dBm).
- Endryption type FIPS.
- Version 4.2 BR / EDR and BLE (Low Energy).

USB

- · Version 2.0.
- · Data Rate 480Mbps.
- Connection Type Micro-B

RS-485

- ANSI/TIA/EIA-485-A Standard.
- Max. 32 equipments.
- · Half duplex.
- Multipoint.
- Max. distance 1.200 meters.
- 2 metalics wires.
- Automatic speed from 1,200 to 57,600 bps.

Type tests attended

- Applied Voltage (IEC 60255-5): 2kV / 60Hz / 1min. (against land).
- Voltage Impulse (IEC 60255-5): 1.2/50 sec. / 5kV / 3 neg. and 3 pos. / 5 sec. Interval.
- Electrostatic Discharges (IEC 60255-22-2): Air mode = 8KV / Counted mode = 6 KV.
- Immunity to radiated electromagnetic disturbance (IEC61000-4-3): 80 to 1000 MHz / 10V/m.
- Immunity to Fast Electrical Transients (IEC60255-22-4): Power/Input/Outputs=4KV/common 2Kv.
- Surge Immunity (IEC60255-22-5): phase/neutral 1KV, 5 per polar (±) phase-ground/neutral-ground 2KV, 5 per polar
- Immunity to Conducted Electromagnetic Disturbances (IEC61000-4-6): 0.15 to 80 MHz / 10V/m.
- Climatic Test (IEC60068-21-14): -40°C +85°C / 72 hours.
- Vibration Resistance (IEC60255-21-1): 3 axes / 10 to 150Hz / 2G / 160min/axis.

Communication Protocols

- •MQTT TLS/SSL.
- DNP3 Level 1.
- · Modbus-RTU.

Human-machine interface (HMI)

- High-brightness red 3-digit numeric display..
- $\hbox{-}\, Simultaneous\, indication\, of\, the\, 4\, monitored\, temperatures.$
- 4 Navigation keys.
- 13 LEDs on the front for event indications.
- Intuitive menus for consultation and parameterization

Measurement Inputs

- 4 inputs for temperature measurement with 3-wire PT100 sensor (EN60751-DIN43760).
- Accuracy of 0.5% (FS)
- Temperature measurement range 0°C to 200°C.

Digital Outputs to Relays

- 01 Relay (NAF) with a capacity of 10 amps for Temperature Alarm.
- 01 Relay (NAF) with a capacity of 10 amps for FAN (cooling) with programmable activation timing.
- 01 Relay (NAF) with a capacity of 10 amps for TRIP (shutdown) with programmable activation delay.
- 01 Relay (NAF) with a capacity of 10 amps for Fault Indication (watchdog).
- Intuitive menus for consultation and parameterization.

Analog Output

• 01 Analog Output (Active 15Vdc) from 0 to 1mA, 0 to 5mA, 0 to 10mA, 0 to 20mA or 4 to 20mA configurable by the user.



FAQ and Technical Support

Technical Support

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