POWER DIAGNOSTIC INSTRUMENT COMPANY

Smart Wireless Temperature Monitoring

WTR-24D : Wireless Temperature Monitor

Functionality	:	Receives & displays temp & voltage data
Sensor type	:	433Mhz passive (battery- less) 433MHz Battery Powered, 2.4GHz Passive and battery powered both
Max number of sensors **Wireless Temp. Sensors** **Wireless Temp. & Humidity Sensors** **Wired Temp & humidity Sensors**	: 	 **Max 24 Pcs** **Max 24 Pcs** **Max 2 Pcs.**
Internet connection option	:	2G\4G
Communication port	:	**2 x 485 port, LoRa**
Alarm Relays	:	**maximum of 4 relays**
Switching input	:	Can be connected to smoke sensor

Smart Wireless Temperature and Humidity monitoring system

- PDIC offers an advanced temperature and humidity monitoring solution with high-performance industrial hardware. It offers faster, reliable hardware which monitors the temperature of LIVE busbars, switchgears, bus ducts, isolators, breakers and machine terminals etc. up to voltage rating of 400KV voltage rating.
- Temperature monitoring system comes with a choice of sensors like passive, battery powered to suite to a specific need and application requirement.
- The system also comes with optional control of temperature and humidity to control the ambient temperature and RH of the cabinets, enclosure and confined spaces.
- It offers a very simple and user-friendly interface to view the data and perform the initial setup and configuration.
- Offers the real time temperature of target apparatus with high accuracy.
- Internal data storages ensure availability of data despite loss of aux power.
- Receiver and display unit is suitable for panel and wall mounting. Easy to install and easy to disassemble.
- Delivers the alarm in case of overtemperature. Can also store 100 historical overtemperature records.
- Keeps the record of highest and lowest temperature with time of occurrence.
- Keeps the record of unbalanced temperature withing a specified group in case of unbalanced conditions.
- Data output via RS485 communication for integration of data to third party system.
- With LoRa wireless long-distance transmission of data to the local background without field layout communication lines.
- Receiver also offers 2G\ 4G Internet access for data transmission to IoT, cloud platform and APP docking.

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Specification		
Function	:	Technical Parameter
Wireless frequency	:	2.4GHz \ 433MHz
Wireless Quantity	:	Temperature ≤ 24pcs, Temperature & Humidity ≤24pcs
Environment Operation	:	Max. 24 channel T&H wireless Sensor (optional)
Environment Operation	:	Max. 2 channel T&H wire sensor (optional)
Communication local	:	Rs485, distance max. 1200m
Communication Long range	:	LoRa, wireless telecommunication max. 1000m(optional)
Communication Long range	:	2G or 4G module: data transmission with cloud (optional)
Power	:	≤ 5VA
Working	:	T-10 ~ 70 C
Working H	:	≤ 90 % RH, No condensation, no corrosion
Relay contact	:	AC220V/5A Passive contact
IP	:	IP20
Insulation	:	≥ 100MΩ (10~30 C, ≤ 90 % RH)
Installation	:	Panel mount or rail installation option available

Basic option	
User Interface Display :	
① Sensor Position	
② Temperature Value	
③ Voltage value	
④ Alarming status switch	
⑤ Time	
⑥ Ambient temperature and humidity display	
⑦ Button indication	

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