

SMART TRANSFORMER MONITORING SYSTEM



REAL-TIME ONLINE ALERT
& MONITORING SYSTEM.



QTC CARE : 24/7



FIT FOR ALL TYPE OF
TRANSFORMER.



SAVE COSTS AND TIME
FOR MAINTENANCE.





MP SMART



MPI SMART

KEY FEATURES

- Real time online monitoring
- Data record on cloud
- Real-time alert
- Auto GPS Location
- Monitoring report
- Peak History

- Real time online monitoring
- Data record on cloud
- Real-time alert
- Auto GPS Location
- Monitoring report

ONLINE MONITORING FUNCTIONS

- Voltage
- Current
- Unbalance Voltage
- Unbalance Current
- Power (kVA, kW, kVAR)
- Top Oil temperature
- Event Log
- Service History
- Service Report
- Pressure (Optional)
- Oil level (Optional)

- Voltage
- Current
- Unbalance Voltage
- Unbalance Current
- Power (kVA, kW, kVAR)
- Top Oil temperature
- Event Log
- Service History
- Service Report

ALERT FUNCTIONS

- Available on Application and E-mail
- Unbalance Voltage
- Over Voltage
- Under Voltage
- Unbalance Current
- Over Current
- Top Oil temperature
- Under Oil Level
- Over Pressure

- Available on Application and E-mail
- Unbalance Voltage
- Over Voltage
- Under Voltage
- Unbalance Current
- Over Current

Physical

Dimension L 300mm x W 150 mm x H 650 mm
 Weight 4 kg
 Protection Degree IP55

L 250mm x W 150 mm x H 400 mm
 9.2 kg
 IP54

Electrical

Working Voltage 3 Phase (with neutral)
 150 to 450 Vrms 50/60 Hz
 Power Consume 10 VA
 Working Temperature 0°C to 55°C
 Humidity resistance 90% non-condensing

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 10 VA
 0°C to 55°C
 90% non-condensing

Electrical Measurements

Phase voltage 0.0 to 265.0 V
 (scaling : PT ratio 1 to 200)
 Line current 0-5 A
 (scaling : CT ratio 40/5A to 6000/5A)
 Power quantity Appearance power (kVA),
 Active power (kW),
 Reactive power (kVAR)
 Power quality Power factor, Frequency
 (45.00 to 65.00 Hz)

0.0 to 264.0 V
 (scaling : PT ratio 1 to 200)
 0-5 A
 (scaling : CT ratio 40/5A to 6000/5A)
 Appearance power (kVA),
 Active power (kW),
 Reactive power (kVAR)
 Power factor, Frequency
 (45.00 to 65.00 Hz)

Input for Transformer status Measurements

Top oil temperature PT100
 Top oil pressure 4-20mA / 0.00 to 1.00 bar
 Oil level 2 contacts for alarm level and trip level
 Communication RS485 MODBUS RTU

PT100 Magnetic
 RS485 MODBUS RTU

Output

Lamp Overload lighting

Other Monitoring

Location GPS, GLONASS, BeiDou, Galileo, QZSS

GPS, GLONASS, BeiDou, Galileo, QZSS

Communication

Primary communication 3G / 4G
 Logging & upload period 1 to 60 minutes
 Setup Communication Wifi

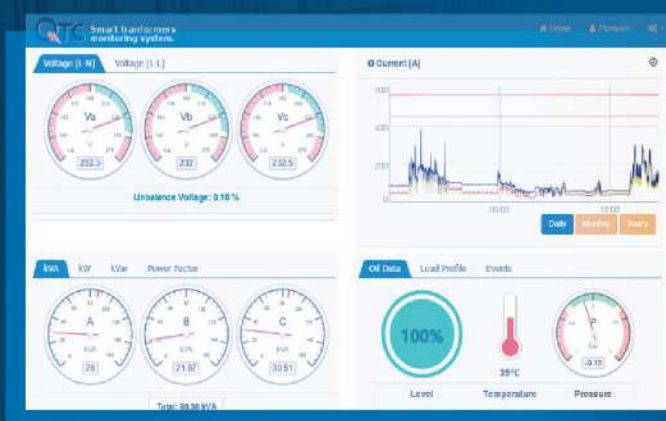
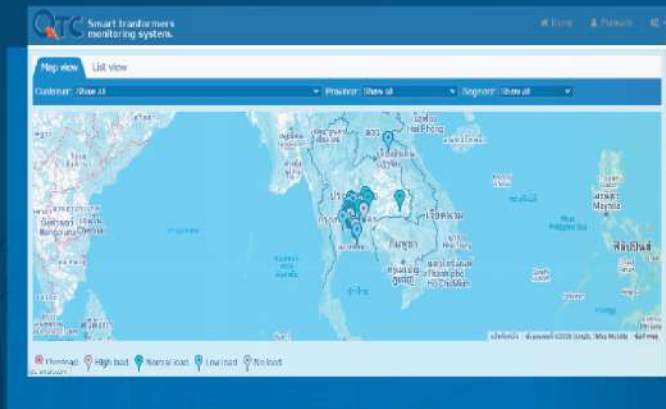
3G / 4G
 1 to 60 minutes
 Wifi

Bundle set

Smart Monitoring Box (SMB) x 1 set
 CT class 1 x 3 pcs.
 PT100 x 1 pcs.
 TEC SYSTEM Sensor x 1 set (optional)
 Internet Sim (Package 2 Yr.)

Smart Monitoring Box (SMB) x 1 set
 CT class 1 x 3 pcs.
 PT100 Magnetic
 Internet Sim (Package 2 Yr.)

ONLINE MONITORING DISPLAY



THE ADVANTAGES OF SMART TRANSFORMER MONITORING SYSTEM

Power Management

- ✦ Balance Phase
- ✦ Optimization peak Charge

Data Analysis

- ✦ Trouble Shooting
- ✦ Planning



ANYWHERE IN THE WORLD
ON YOUR HAND



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