



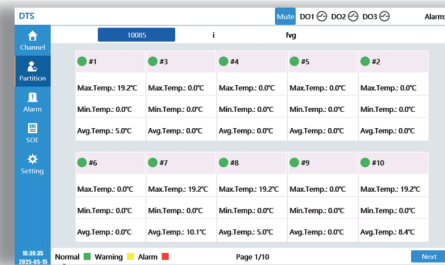
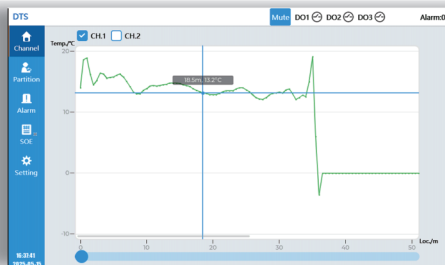
PMC-3601F

Distributed Fiber Optic Temp. Sensor

- 10km Long Distance & Continuous Temp. Monitoring
- High-accuracy: $\pm 1^{\circ}\text{C}$
- $\pm 1\text{m}$ Pinpoint Anomalies
- Wide Temp. Monitoring Range: -40°C to $+150^{\circ}\text{C}$
- EMI Resistant & Intrinsic Lightning Protection

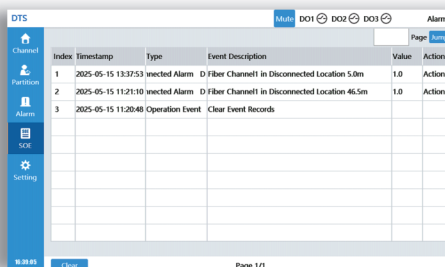
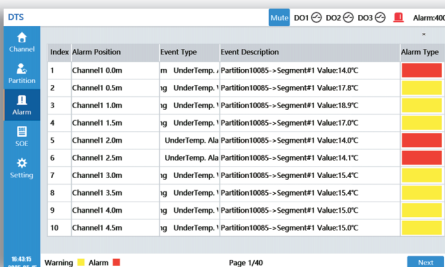
PMC-3601F can provide accurate temperature monitoring over a long distance. By using the Raman Scattering principle, the temperature distribution along the entire length of an optical fiber cable and the location of temperature anomalies can be determined. Its long distance and high accuracy temperature monitoring, along with anti-electromagnetic interference and intrinsic lightning protection features, make the PMC-3601F particularly suitable for places such as petroleum, natural gas pipelines, chemical industry, metallurgy, electric power, fire fighting, energy, storage and nuclear industry.

Intuitive “Channel-Area-Segment” Layered Display for Temperature Monitoring



- Separate display of temperature measurement curves for 4 channels. The user - friendly Touch Panel supports zoom - in and zoom - out operation
- Each channel supports up to 50 areas and each area supports up to 100 segments
- Intuitive display of the Max. & Min. temperature values and the status flag of each segment

Real-time Alarms, SOE and Timely Anomaly Positioning



- Built - in buzzer sounds the alarm when there is a fault or the temperature is too high
- Displays the location and details of the fault alarm, automatically generates fault alarm event records, and triggers DO
- Configurable alarm threshold for temperature setpoint, heating rate abnormality, temperature difference and anomaly



Terminals and Accessories

2xRJ45

Modbus-RTU and Modbus-TCP

CH1 CH2 CH3 CH4

2xRS-485

Modbus-RTU

P1 10/100M P2 10/100M P3 D+ D- P4 D+ D-

3xMechanical Relay (DO)

Connecting Capacity: 5A continuous, 250V AC/30V DC
Breaking Capacity: L/R=40ms, 10000
220V DC, 0.1A
110V DC, 0.3A
48V DC, 1A
Active/Inactive Delay<10ms

DO1 DO2 DO3 DO4 DO5 DO6

4xOptical Fiber Channel

CH1 CH2 CH3 CH4

24V DC Power Supply

Power(24VDC)
V+ V-

- Standard 62.5/125mm Multimode Fiber (MMF) can be used as both a temperature sensor and a transmission medium simultaneously
- Simple structure, fast heat penetration and rapid temperature response
- The use of armoured cables and flame - retardant protection enhances its mechanical and protective properties, making it simple and easy to install and easy to install

Technical Specifications

Temperature Measurement

Optical Channels	4
Optical Fiber Type	Standard 62.5/125mm MMF
Measurement Range	-40°C~+150°C (Depends on Optic Fiber)
Accuracy	±1°C
Max. Monitoring Distance	10km
Positioning Accuracy	±1m
Cycle Measurement Time	< 5s/Channel

Environmental Conditions

Power Supply	24V DC
Burden	< 15W
Operating Temp.	-10°C~+50°C
Storage Temp.	-40°C~+85°C
Humidity	5%~95%
Atmospheric Pressure	70kPa~106kPa
Altitude	≤3000m

Dimensions and Installation

Unit Dimension (mm)	W280×H190×D74
Installation Mode	Panel Cutout or Wall-Mounting

Installations

