

Model GCTU-PDT-PTY-SO2

4/1 SF6 Analyzer - Gas Collection with Pump-Back

The **GCTU-PDT-PTY-SO2** is a 4 in 1 analyzer designed to recycle and pump-back the entire SF₆ sample, giving a zero effect to the installation and protecting the environment by eliminating any discharge to atmosphere.

- 4-20mA transmitter (Model PDT) with accuracy to $\pm 3.6^{\circ}\text{F}$ (2°C). Range -76°F to $+68^{\circ}\text{F}$ dewpoint, $^{\circ}\text{C}$ or ppmv equivalent.
- SF₆ Purity Analyzer (%)
- SO₂ Analyzer (ppmv)
- Transfer/Pump-Back Function
- Pre-factory set and fully calibrated
- Rugged transportation case

The **GCTU-PDT-PTY-SO2** has been specifically developed to sample and analyse dewpoint, SF₆ Purity (%) and SO₂ (ppmv). The unit collects the SF₆ sample from MV/HV Circuit Breakers, Switchgear and Transformers in the internal collection vessel of the instrument. After sampling and logging, the sample can simply be pumped back into the installation under test.

The user has only to connect, regulate flow, take sample, log, then pump back, typically in under 5 minutes (includes purging time).



Measuring instrument conforms to BS EN 61326-1

FEATURES

- Full color touch screen graphical display.
- Internal logging as standard with download function to PC via USB.
- Pre-set alarm points to IEC 60480:2004 for dew-point, % and ppmv for both MV and HV installations.
- Integrated Dewpoint Transmitter/ Hygrometer, SF₆ purity and SO₂ analyzer.
- Unlimited Fill/Discharge Cycles.
- Integrated vacuum assisted sample purge.
- Dual voltage 110/240v option available.
- 175 PSIG (12 bar) maximum back fill pressure.
- User friendly operation with built-in fail safe features.
- Supplied ready for use with a high quality 6.5 feet (2 meter) PTFE lined stainless steel braided sample hose.
- Extra strong NEMA 4 (IP66) rugged transportation case with retractable handle and tough in-line wheels.

Innovation • Precision • Quality • Performance

SPECIFICATIONS

SAMPLING SYSTEM:

Process pressure indicator.
Sample flow indicator.
Large internal collection vessel up to 15 litres.
Automatic shut down when collection vessel is full.

TRANSFER SYSTEM (Pump-Back):

Simple operation without disconnecting sample line.
High integrity discharge pump with output capability up to 175PSI (12 barg).

Automatic shut down when collection vessel evacuated.

4 in 1 INSTRUMENT:-

DEWPOINT

Sensor Type: 4-20mA Dewpoint Transmitter.
Measuring Range: -76°F to +68°Ftd (-60°C to +20°Ctd), or 5.3 to 23,000 ppm(V).
Accuracy to: ±3.6°F (2°C).
Display: Full color touch screen LCD.
Power Supply: AC (Mains) 110V or 240V 50/60Hz

SF6 PURITY (%)

Sensor Type: Katharometer
Range: 0 - 100%
Accuracy: ± 0.5%
Display: Full color touch screen LCD.

SO2 (ppmv)

Sensor Type: Electrochemical Gas Sensor 4-20mA
Range: 0-100 ppmv (other ranges available)

INTEGRAL PUMP

Oil-less operation
No oil residue emissions
Complies within tolerances set out in the IEC 60480 Standard.

DATA LOGGING:

Built-in logging as standard. Comes with PC logging software and USB connecting cable.

TRANSPORTATION CASE:

Waterproof IP66 (NEMA4) rating.
Hard wearing, non-slip grip carrying handles.
Retractable pull along handle.
Pressure vents for air transportation.

DIMENSIONS:

24.6" x 19.7" x 11.6" (625 x 500 x 297mm).

WEIGHT:

49.5lb (22.5kg).



How to Order

Model GCTU-PDT-PTY-SO2 - [x]

Voltage
1 = 110v
2 = 240v

ORDER EXAMPLE:

To order this instrument for 110v applications in the US/CA:

The Part Number will look like this: **GCTU-PDT-PTY-SO2-1**

2396 SF6 Analyzer pd230317del - Iss-1



CERTIFICATE No. FM35600
BS EN ISO 9001: 2008



Institute of Measurement and Control
Companion Company

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