

Model GCTU-CMH-PTY-SO2

4 in 1 - SF6 Analyser - Gas Collection with Pump-Back

The **GCTU-CMH-PTY-SO2** is 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.

- **Precision Chilled Mirror Dewpoint Hygrometer with accuracy to ± 0.2°C (0.36°F).**
Range -40°C to +20°C dewpoint. °F or ppmv.
- **SF₆ Purity Analyser (%)**
- **SO₂ Analyser (ppmv)**
- **Transfer/Pump-Back function**

The **GCTU-CMH-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 colour 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 Chilled Mirror Dewpoint Hygrometer, SF₆ purity and SO₂ analyser.
- Unlimited Fill/Discharge Cycles.
- Dual voltage 240v or 110 option available.
- 12 bar (175 PSIG) maximum back fill pressure.
- User friendly operation with built-in fail safe features.
- Supplied ready for use with a high quality 2 meter PTFE lined stainless steel braided sample hose.
- Extra strong IP66 (NEMA 4) 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 12 barg (175PSI).
 Automatic shut down when collection vessel evacuated.

4 in 1 INSTRUMENT:-

DEWPOINT

Sensor Type: High Precision Chilled Mirror.
 Measuring Range: -40°C to +20°Ctd (-40°F to +68°Ftd) or 5.3 to 23,000 ppm(V).
 Accuracy to: ± 0.2°C (0.36°F).
 Display: Full colour touch screen LCD.
 Power Supply: Mains (AC) 240V or 110v 50/60Hz

SF6 PURITY (%)

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

SO2 (ppmv)

Sensor Type: Electrochemical Gas Sensor 4-20mA
 Range: 0-100 ppmv (other ranges available).
 Accuracy to: ± 5%.

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-CMH-PTY-SO2 - [x] - [xx]

Voltage

1 = 110v
 2 = 240v

ORDER EXAMPLE:

To order this instrument for 240v applications in the EU:
 The Part Number will look like this: **GCTU-CMH-PTY-SO2-2-EU**

AC/MAINS PLUG TYPE-

US: 2 Vertical Flat Blade
UK: Standard UK, 3 Square pin
EU: 2 Round Pins
AU: 2 Oblique Flat Blades with Ground

US Type



UK Type



EU Type



Australian Type



Authorised Distributor Information

Notes
