

**HF-TC-620****SF6 Gas Analyzer**

SF6 Gas Analyzer is an all-in-one portable testing device dedicated to power substations. It accurately measures SF6 purity, dew point and various decomposition byproducts automatically. Equipped with touch screen, data storage and rechargeable battery, it enables efficient on-site maintenance of GIS and high-voltage circuit breakers.

**Key features**

- Automatic Calibration : The sensor probe performs automatic zero calibration, eliminating systematic errors caused by zero drift to ensure accurate measurements each time.
- Easy Operation : Large capacitive touch screen delivers straightforward, visual one-touch operation.
- Optional Pipeline Cleaning System : Automatically cleans internal pipelines after testing to boost testing speed and precision.
- Fast Startup : After entering measurement status, each fixed-point test takes roughly 3 minutes.
- Self-sealing Joints : Original imported self-locking air connectors ensure tight sealing without gas leakage.

**Technical specifications**

| Parameter           | Value                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SF6 Purity          | Measuring Range: 0% ~ 100% Accuracy: $\leq \pm 0.5\%$ FS Measurement Time: $< 2$ mins                                                                                                                                                                                                                                                                                                                       |
| Dew Point           | Measuring Range: $-80\text{ }^{\circ}\text{C} \sim +20\text{ }^{\circ}\text{C}$ Accuracy: $\pm 1\text{ }^{\circ}\text{C}$ ( $-60\text{ }^{\circ}\text{C} \sim +20\text{ }^{\circ}\text{C}$ ) Response Time: 63% takes 5s, 90% takes 45s ( $-60\text{ }^{\circ}\text{C} \sim +20\text{ }^{\circ}\text{C}$ ) 63% takes 10s, 90% takes 240s ( $+20\text{ }^{\circ}\text{C} \sim -60\text{ }^{\circ}\text{C}$ ) |
| H <sub>2</sub> S    | Measuring Range: 0 ~ 200 ppm Minimum Detection Limit: $\leq 0.1$ ppm Accuracy: $\leq \pm 3\%$ Unit: PPM Repeatability: $\leq \pm 2\%$                                                                                                                                                                                                                                                                       |
| SO <sub>2</sub>     | Measuring Range: 0 ~ 200 ppm Minimum Detection Limit: $\leq 0.1$ ppm Accuracy: $\leq \pm 3\%$ Unit: PPM Repeatability: $\leq \pm 2\%$                                                                                                                                                                                                                                                                       |
| CO                  | Measuring Range: 0 ~ 500 ppm Minimum Detection Limit: $\leq 1$ ppm Accuracy: $\leq \pm 4\%$ Unit: PPM Repeatability: $\leq \pm 2\%$                                                                                                                                                                                                                                                                         |
| HF                  | Measuring Range: 0 ~ 50 ppm Minimum Detection Limit: $\leq 50$ ppb Accuracy: $\leq \pm 2\%$ Unit: PPM Repeatability: $\leq \pm 2\%$                                                                                                                                                                                                                                                                         |
| Ambient Temperature | $-20\text{ }^{\circ}\text{C} \sim +60\text{ }^{\circ}\text{C}$                                                                                                                                                                                                                                                                                                                                              |
| Ambient Humidity    | 0 ~ 90% RH                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Supply        | AC 100~240V 50/60Hz; Built-in rechargeable battery                                                                                                                                                                                                                                                                                                                                                          |
| Battery Performance | Charging Time: 3 hours; Continuous Usage: $\geq 8$ hours                                                                                                                                                                                                                                                                                                                                                    |
| Sample Gas Pressure | $\leq 1$ MPa                                                                                                                                                                                                                                                                                                                                                                                                |
| Overall Dimensions  | 300×148×260 mm                                                                                                                                                                                                                                                                                                                                                                                              |
| Net Weight          | 7.8 kg                                                                                                                                                                                                                                                                                                                                                                                                      |

**Standard scope of supply**

| No. | Item                                                  | Qty   | Notes                             |
|-----|-------------------------------------------------------|-------|-----------------------------------|
| 1   | SF6 Comprehensive Gas Analyzer Main Unit              | 1 Set | Complete host machine             |
| 2   | Inlet & Outlet Gas Sampling Hoses & Sealed Connectors | 1 Set | Imported self-locking air joints  |
| 3   | Power Adapter & Charging Cable                        | 1 Pc  | AC100-240V universal power supply |
| 4   | USB Data Transmission Cable                           | 1 Pc  | For data export to computer       |

| No. | Item                                    | Qty    | Notes                                  |
|-----|-----------------------------------------|--------|----------------------------------------|
| 5   | Detailed English Operation Manual       | 1 Copy | Official user guide                    |
| 6   | Factory Calibration Certificate         | 1 Copy | Inspection calibration report          |
| 7   | Shockproof Portable Aluminum Carry Case | 1 Pc   | For field transportation & storage     |
| 8   | Spare Filter Elements & Sealing O-rings | 1 Set  | Consumable spare parts for replacement |

Compliance and documents

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Applicable standards    | [ TO BE CONFIRMED ] standard applied to this model |
| Calibration certificate | [ TO BE CONFIRMED ]                                |
| Optional accessories    | [ TO BE CONFIRMED ]                                |

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.