

EMT Asserolyz-IR 3 Gas
Portable Infra Red SF6 Analyser
measures SF6 purity, H2O
and SO2 in a simple to use
field portable analyser with
laboratory like results

emt
asserolyz IR
SF6 analyser



EMT offers a complete range of analysis and handling instruments designed to meet the varying application requirements of Testing & Maintenance in SF6 gas filled equipment.

Our technologies are used in T&D networks of switchgear and circuit breakers around the world for the analysis and testing of all parameters associated with SF6 gas quality. EMT offers 3 Gas Analysis on 2 of its models: Asserolyz-IR and Zerowaste®.

The "Asserolyz-IR 3 Gas Analyser" delivers highly accurate infra red analysis previously only available in laboratory based instruments, to power industry on-site plant applications. Light with easy to use operation combined with accurate, fast measurement together with very low gas usage and high data storage capacity, this "Asserolyz-IR 3 Gas Analyser" provides an inexpensive and cost effective solution for measuring SF6 quality.

Features

- Uses advanced infra red absorption technology with electrochemical cell, bringing laboratory standard measurement to the field
- Light and fully portable to allow for hands-free operation
- Readings are obtained at just 5 minutes per test with the minimum amount of gas used
- Full colour touch screen display with user friendly interface and USB communication
- Fully compliant, pre set user selectable methods (CIGRE/IEC/ASTM) plus 3 custom methods
- Datalogging of up to 1000 sample results

- Accurate - IR is specific with no cross interference, no contamination and no drift, delivering stable, repeatable readings
- Upgradeable with easy addition of more sensors for measurement of up to 11 gas parameters including CF4, HF, CO, H2S and R12
- Leak detection probe option.

Accessories & Options

- Pressure regulator
- Purge filter tube
- Purge filter refill sachets and filling funnel
- Battery charger
- Leak detection probe
- Shoulder harness
- Carry case
- Universal fittings kit providing connection to any SF6 compartment.

Other Products in this Range

- Zerowaste® 3 Gas Analyser
- Zerowaste® SF6 Analyser (measurement of up to 11 gas parameters)
- Smartfill SF6 Filling & Topping Up System
- Smartfill Continuous SF6 Top-Up Manager.

Technical Specification



Multi sensor Hi/Lo ppm technology. SF6 Purity, Dewpoint, SO2 (low/high range)

Gases Measured and Options	Gas	Range	Repeatability
	SF6 Purity	0-100%	+/-0.5% FS ¹
	Dewpoint	-60 - 20°C	+/-0.5°C at -30°C
	HF	0-200ppm	+/-5% FS ¹
	SO2 Lo	0-150ppm	+/-2% FS ¹
	SO2 Hi	0-500ppm	+/-2% FS ¹
	CF4 Lo	0-4000ppm	+/-2% FS ¹
	CF4 Hi	0-65%	+/-1% FS ¹
	CO	0-1000ppm	+/-5% FS ¹
	HS2	0-100ppm	+/-5% FS ¹
	R12	0-250ppm	3% of FS ¹
	AIR	0-50%	1% of FS ¹

FS¹: Full Scale (of Measuring Range)

SF6 Leak Detection	Detection Limit	3 gm/year/PPM
	Technology	NDIR

Screen	Type	TFT
	Size	4.3" 16:9 (wide aspect ratio)
	Resolution	480 x 272 dots
	Transmission Mode	TN/Transmissive/Normally White
	Dot Pitch	0.198 x 0.198
	Colours	24 bit
	Touchscreen	Integrated resistive touch panel
	Backlight	White LED PWM
	Luminance	350Cd/m ² (Typ.)

Memory	Type	Flash EEPROM
	Capacity	1000 results

Battery	Operating Time	>6 hours
	Charger Voltage	12V
	Charger Connector	2.5mm jack plug
	Charger Input	100-240V - 50/60Hz

PC Communications	Type	USB
	Connector	Mini AB

Gas Pressure	0.5 to 10 Bar (7 to 145 PSI)
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Operating Environmental Conditions	Temperature Range	-20 to 40°C
	Humidity	0-95% RH non-condensing

Physical Specifications	Weight	1.8kg (4lbs)
	Maximum Dimensions	565 x 205 x 86 mm (22.25" x 8.0" x 3.25") (instrument only)
	Maximum Case Dimensions	L645 x D450 x W195 mm (25.0" x 17.0" x 7.0")

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