

DILO Company, Inc.

3-037-R050 SF₆ Moisture Analyzer



The DILO **3-037-R050** moisture analyzer is a stand-alone device designed to quickly and accurately measure the amount of moisture present with the tested SF₆.

Because the unit contains an automatic flow and pressure control module, the user does not need to be concerned with setting the correct flow rate, or compensating for variations in equipment pressure. In fact, the device can handle up to 500 PSIG inlet pressures – making it a perfect fit for directly testing new cylinders, without the need for a (potentially contaminating) pressure regulator.



All readings are displayed real-time on the touch-screen display, in parts per million volume (PPM_v), mass (PPM_m), and dew point in degrees Celsius.

The **3-037-R050** moisture measuring device has been designed, from the ground up, to be used on arced SF₆. Unlike conventional multi-gas hygrometers, the **3-037-R050** uses a specifically calibrated exclusive polymer-based sensor, designed around the unique characteristics (i.e. densities, molecular weights, and acidity) of faulted SF₆. Not only is the device consistently more accurate and reliable, but the typical long-term drift (and subsequent need for factory recalibration) associated with non gas-specific devices is all but eliminated*. Should calibration be required, the cartridge-type sensor can be removed and returned without the need to return the entire unit.

- Compact, lightweight
- Low maintenance
- Modular sensor
- Cost-effective
- No consumables
- Highly sensitive
- Touch-screen interface
- Fast test results, typically <6 minutes total
- AC or battery power (8 hours)

Technical Specifications

3-037-R050 SF₆ Moisture Analyzer

Connections:	DILO self-sealing quick disconnects
Input pressure:	8 PSIG to 500 PSIG
Flow rate:	20 liters per hour, or 6.4 oz. per hour
Operation:	Purge valve to vent contents of hose
Display:	Touch-screen LCD 240 x 128 pixels
Power supply:	Lithium Ion rechargeable batteries (8 hour) 100-265 VAC, with battery status indicator
Operating temp:	32°F to 122°F
Dimensions:	11"L x 5.5"W x 11.75"H, 13 lbs.
Measuring range:	20 PPM _v to 10,000 PPM _v
Display:	°C dew point, PPM _v , and PPM _m
Accuracy:	40 – 10,000 PPM _v : ± 2°C < 40 PPM _v : ± 4°C
Flow rate:	20 liters per hour, or 6.4 oz of SF ₆ per hour
Calibration:	Recommended every two years
Response time:	<6 minutes
Accessories:	Manual Connecting hoses
Calibration:	Once every 24 months (for ISO certification)

* Factory calibration is recommended every 24 months for OEM applications requiring ISO certification