

Annexure-12: Dual Dew point monitoring system

Data Sheet: Online Dual Dew Point Monitoring System	
Technical Specifications	
Parameter	Specification
Measurement Type	Simultaneous Hydrocarbon & Water Dew Point
Measurement Range	-100°C to +20°C dew point
Accuracy	±2°C dew point
Sensor Technology	Chilled Mirror / Shaw / Thin Film Polymer (vendor selectable)
Response Time	< 5 minutes
Process Pressure	suitable for 150# piping & Process pressure up to 10 barg
Sample Flow Rate	0.1 to 2.0 SCFH
Output Signals	4–20 mA, Modbus RTU (RS485), 2 programmable relay alarms
Display	LCD / Alphanumeric with dew point, moisture content, and alarm status
Power Supply	100–240 VAC, 50/60 Hz or 24 VDC (site-specific)
Mounting	Panel / Wall / Skid-integrated
Enclosure	IP65 / Flameproof (optional for hazardous area)
Calibration	13-point traceable calibration (e.g., -100°C to +20°C), NIST/ISO traceable
Operating Temperature	0°C to 55°C
Compliance Certificates	CE, ATEX, IECEx, ISO 9001, Zone 2 IIC T3
Warranty	Minimum 2 years
Sensor Life Guarantee	Minimum 2-year warranty with expected operational life
Technical Data Sheet	Detailed specifications of analyzer, sensor type, range, accuracy
Installation Manual	Step-by-step guide for mounting, wiring, and commissioning
Operation & Maintenance Manual	Instructions for routine checks, calibration, and troubleshooting
Sample Handling System Layout	P&ID or schematic showing flow cell, isolation valves, gauges, etc.
Software Interface Guide	For Modbus/RS485 integration, SCADA compatibility
Factory Acceptance Test (FAT) Report	

* Correction in Process Pressure