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# АНАЛИЗАТОРЫ ВЛАЖНОСТИ ЖИДКОСТИ

## ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

### Liquidew EExd Moisture in Liquids Analyzer



The Liquidew EExd offers complete trace moisture measurement, applying a robust sensor technology to provide direct, accurate, on-line measurements for moisture dissolved in process liquids. Purpose designed explosion-proof measurements, convenient display interface and easy installation for new projects and retrofits to existing plants.

#### Product Features

- EExd flameproof certified - IECEx, ATEX, cCSAUS and TC TR Ex
- Complete hazardous area installation
- Single or dual-channel measurements
- 0.001 ppm<sub>w</sub> to saturation range capacity
- Pre-programmed and user-entered saturation concentration values
- Remote global access options

#### Technical Specification

##### Main Unit

##### Measurement Parameters

Channel Configuration      Single and dual channel

Moisture Content              ppm<sub>w</sub>

Temperature	°C and °F
Water Dew Point	°C and °F
Sample Flow Rate	Status indication: Low-Good-High (<0.1 to >0.3 l/min)

### Sensor Technology

Moisture Sensor Technology	Michell Ceramic Moisture Sensor
Calibration Range	-100 to +20°Cdp
Measurement Range	-120 to +30°Cdp (0.001 ppm <sub>w</sub> to saturation)
Accuracy	Dew point: ±1°C between -59.9 & +20°Cdp Moisture content: ±10% of reading Dew point: ±2°C between -60 & -100°Cdp Moisture content: ±20% of reading Analysis temperature: Accuracy ±0.2°C
Resolution	0.1°C between +20 and -80°Cdp 1°C between -80 and -100°Cdp
Temperature coefficient	Algorithm compensation (-20 to +50°C)
Operating Pressure	Max. 80 barg (1160 psig)
Sample Flow	Up to 1 l/min (0.1 - 0.2 l/min recommended)

### HMI

Keypad/Interface	Capacitive touch-screen through glass
Display	Vacuum fluorescent
Datalogging	A rolling maximum of 150 data logs is available Each log records time, date, moisture and temperature values for each channel 5 minutes minimum and 60 minutes maximum logging intervals can be set by the user
Communications and Output	Two non-isolated 4-20 mA per measurement channel 500 Ω maximum load Range and parameter settable by user Modbus RTU @ 9600 baud-rate Alarms: two volt free contacts per channel; one process value and one instrument status Also available via Modbus communications

### Enclosure

Type	Flameproof EExd
Construction	Cast copper-free aluminium (IP66/NEMA 4)
Finish	Chromate primer, Polyester P9010 powder coated (black). Meets BS3900

### General

Sample Connections	1/8" NPT (ATEX / IECEx) or 1/4" NPT (CSA)(female)
Weight	22.5kg

Operating Supply Voltage 90 to 260 V AC, 50/60 Hz, 180 W Main Unit

Operating Environment -20 to +60°C up to 95% RH  
Indoor or Outdoor, shaded location

### Certification

ATEX: II 2G Ex d IIB + H2 Gb  
IECEX: Ex d IIB + H2 Gb  
Hazardous Area Certification Tamb -40°C to +45°C T4  
Tamb -40°C to +60°C T3  
cSAus: Class I, Division 1, Group B, C, & D T4  
\*TC TR: 1Ex d IIB+H2 T4, T3 Gb  
Pattern Approval GOST-R, GOST-K

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