

# Tunable Laser Online H<sub>2</sub>O Analyser Mod. TDL-H2O-ATAC



## Summary:

The laser moisture in natural gas analyser uses the stability of a laser for accurate low level moisture monitoring. The use of a sophisticated laser based measurement allows long intervals between calibration, excellent noise performance and intrinsic linearity, coupled to long operation life and low maintenance requirements.

## Applications:

- Natural gas monitoring
- Refinery products
- Petrochemical processes
- Gas processing plants

## Features:

- Laser based instrument with no moving parts. Superb linearity is intrinsic to the measurement method
- Excellent stability
- Auto zero capability
- Specific measurement, no interference from other gases
- Long intervals between calibration
- Ultra low maintenance requirements
- Real-time measurement <1 s response time
- Large dynamic range

## Specifications:

### Gas performance

Range:	0 to 500 ppm
Species:	H <sub>2</sub> O in natural gas
Gas flow rate:	0.5 to 4 L /minute
Response time (T90) @ 1L / min flow:	< 90 seconds
Resolution:	< 0.5 ppm
Limit of detection:	<0.5 ppm
Linearity:	±1% of full scale
Zero drift:	< 0.5% of full scale

### Electrical & Mechanical specifications

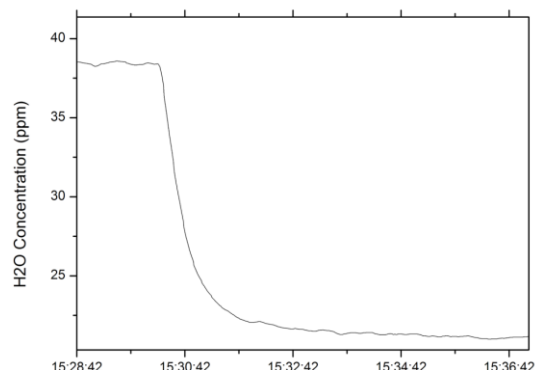
Power input:	100-240V AC, 47-53 Hz
Outputs:	relay and 4-20mA output
Comms:	serial, ModBus (option)
Gas connections:	¼" Swagelok
Estimated weight:	35Kg

### Environmental specifications

Operating temperature range:	0 to +45°C
Storage temperature range:	-10 to +55°C
Operating humidity range:	0 to 99% non condensing

### Display specifications

Display module:	Full colour 4.7" touch screen
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The precision behind  
the process

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