

Архангельск (8182)63-90-72	Иваново (4932)77-34-06	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Сургут (3462)77-98-35
Астана (7172)727-132	Ижевск (3412)26-03-58	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Казань (843)206-01-48	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Набережные Челны (8552)20-53-41	Самара (846)206-03-16	Тула (4872)74-02-29
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Нижний Новгород (831)429-08-12	Санкт-Петербург (812)309-46-40	Тюмень (3452)66-21-18
Брянск (4832)59-03-52	Кемерово (3842)65-04-62	Новокузнецк (3843)20-46-81	Саратов (845)249-38-78	Ульяновск (8422)24-23-59
Владивосток (423)249-28-31	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
Волгоград (844)278-03-48	Краснодар (861)203-40-90	Омск (3812)21-46-40	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Вологда (8172)26-41-59	Красноярск (391)204-63-61	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Челябинск (351)202-03-61
Воронеж (473)204-51-73	Курск (4712)77-13-04	Оренбург (3532)37-68-04	Сочи (862)225-72-31	Череповец (8202)49-02-64
Екатеринбург (343)384-55-89	Липецк (4742)52-20-81	Пенза (8412)22-31-16	Ставрополь (8652)20-65-13	Ярославль (4852)69-52-93

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АНАЛИЗАТОРЫ УГЛЕВОДОРОДОВ

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

The next generation TDLAS Analyzer for automatic online measurement of moisture in variable compositions of natural gas and biomethane. The OptiPEAK TDL600 Tuneable Diode Laser Analyzer employs the latest techniques in laser absorption spectroscopy and signal processing power to offer a robust high performance analyzer, designed specifically for the measurement of moisture in natural gas. This non-contact technology requires minimal maintenance, even in demanding applications such as changing methane concentrations or sour gas. The analyzer is fully hazardous area certified and delivers class-leading measurement performance, stability and detection sensitivity.

Product Features

- D-MET system: Factory-ready for varying gas compositions. For example, after stream blending or injection of shale gas or biomethane to a network.
- Operating range down to 1 ppmv
- Sour gas compatible
- Simple installation and setup
- Lowest maintenance
- IECEx, ATEX and cMETus certified for EExd flameproof
- Integrated sample handling
- Proven Michell Instruments quality: 40 years of expertise in moisture measurement built into the design



Technical Specification

Measuring Technique	TDLAS
Measurement range	1 ppmv to 1000ppmv
Accuracy	±1% of reading > 100ppmv ±1ppmv < 100ppmv
Repeatability	<1ppmv (long term stability <0.1ppmv/year)
Limit of detection	1ppmv
Available units	ppm _v , lb/MMSCF, mg/Nm ³ , dew point °C or °F (ISO18453 or IGT#8)
Response speed	Optical response 0.2s Display update 2-3s
Environmental conditions	Indoor version: -10°C to +45°C Outdoor version:* -20°C to +45°C Outdoor with cooling option:* -20°C to +55°C

Electrical Specifications

Supply voltage	110 V AC or 230 V AC 50/60Hz
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Power requirements	Outdoor version: 180W
Analog signals	Input: 2 x 4-20 mA user configurable Output: 3 x 4-20 mA, 3 alarms 250 V AC, 3A (volt-free contacts)
Digital communications	RS485 ModBus RTU
Data logging	Logs all process variables with a user selectable sample period in the range 10s to 1 day
Local interface	4.3" color LCD with touch pad operation
Electrical connections	3 x M20 entries for cable glands

Calibration

Factory method	3-point, traceable to NPL and NIST
Recommended calibration	None required, dependant on user or quality system requirements

Physical Specifications

Sample flow rate	1 NI/min cell sample, 1 to 5 NI/min sample filter by-pass
Inlet pressure	Maximum 100 barg (1450 psig)
Outlet pressure	Cell vent 0.7 to 1.4 bara, Filter by-pass maximum 3 barg
Enclosure type/ packaging	Aluminium alloy, explosion proof, polyester coated, IP66, NEMA4
Gas connections	1/4" NPT(F)
Weight	40kg (88lbs) (without sampling system)
Sample system enclosure	304L or 316L stainless steel
Hazardous area certification	ATEX: II 2 G Ex d ib op is IIC T5 Gb IECEx: Ex d ib op is IIC T5 Gb Tamb -20°C to +60°C cMETus: Class I, Division 1, Groups A, B, C, D, T5, Tamb -20°C to +60°C, IP66 TC TR Ex: 1 Ex d ib op is IIC T5 Gb

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