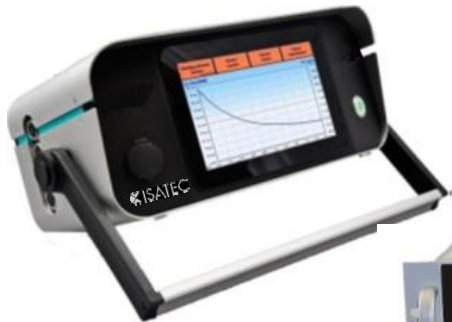


# AQUARIUS SERIES

## MOISTURE TRACES IN GAS ANALYZERS

**AQUARIUS PORTABLE**  
with or without battery



**AQUARIUS TRANSMITTER**  
in line



**AQUARIUS 19" Rack**

**ISATEC AQUARIUS SERIES** are advance moisture trace measuring instruments that work on a basis of  $P_2O_5$ -sensors and can be used for the determination of moisture in all gases (except  $NH_3$ ) in the ppm range.

The principle of the detection of the moisture content of gases is based on the electrolysis of the water, which is absorbed by phosphorus pentoxide ( $P_2O_5$ ). Phosphorus pentoxide is highly hygroscopic and reacts with water to a mixture of several polyphosphoric acids which conduct the current.

### KEY FEATURES:

- **AQUARIUS 19" RACK** and **PORTABLE** have a large graphics display with a resolution of 800 x 480 pixels. The display can be set to Vppm or Dp°C. The automatable sensor check enables the self-monitoring of the device.
- **AQUARIUS TRANSMITTER** allows inline measurement in systems with KF20/40 flange or as separate measuring cell with reaction chamber and 6 mmØ pipe connection.

[www.isatec.it](http://www.isatec.it)



Ingegneria



Service Automation



TECnologie

## TECHNICAL SPECIFICATIONS

	AQUARIUS 19" RACK	AQUARIUS PORTABLE	AQUARIUS TRANSMITTER
Measuring range	0 ...2000 Vppm (switchover automatically)		0 ... 500 Vppm
Resolution	0,1 Vppm		0,1 Vppm
Value display	Vppm or Dp°C		No display
Lower detection limit	0,05 Vppm		
Data logging	Logging rate min. 2 sec., max. 10 min		-
Analogue output	4...20 mA		
Alarm output (limit)	programmable as potential-free change-over contact		-
Body material	PVDF, stainless steel		Stainless steel
Sensor material	Pt wire on glass or thick layer structure on ceramic carrier		Noble metal on ceramic carrier
Measuring gas flow	20 NI/h or 100 NI/h		Constant, ca. 20 NI/h
Measuring gas temperature	5 - 65°C		
Measuring gas pressure	max. 200 mbarg		
Measuring accuracy	± 5% of value, min. 0.4 Vppm		
Response time	<1 sec		
Reproducibility	± 2%		By 10,0 Vppm ± 2%
Gas connection	for NPT ¼ inch. screw fitting		-
Connection of measuring cell	5- pole Binder plug		-
Measuring cable	2m; max cable length 100m	1,5 m	App. 2 m, open cable ends
Operating voltage	90 ... 230 VAC, 50 Hz main power	<b>Version 1:</b> 90 ... 230 VAC, 50 Hz main power <b>Version 2:</b> 24 V DC, 5200 mAh with LI-Ion battery	24 V DC
Design of device	19" Rack (1-4 channels) 3U	Portable unit	Transmitter
Output	USB interface for data transfer + 1 status relay	USB interface for data transfer	-
Display resolution	800 x 480 pic, capacitively touch screen		No display