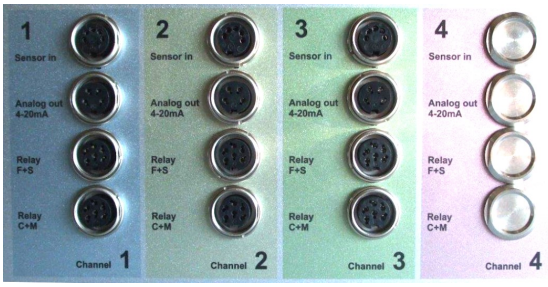
Data sheet

AQUATRACE® IV - R 19“ rack-device, 0-2000 Vppm

for the measurement of traces of moisture

Made in Germany



Product features

- ✓ Analyzer, data logger
- ✓ Industrial device, 1-4 channels
- ✓ Four relays for monitoring per channel
- ✓ MODBUS TCP, remote access
- ✓ Measuring range 0-2000 ppm_V
- ✓ Lower detection limit up to 0.01 ppm_V
- ✓ Measuring cells with Pt-interdigital structure
- ✓ No drift characteristics
- ✓ Easy to maintain, no follow-up costs
- ✓ Traceable measurement result
- ✓ 7 languages, expandable
- ✓ Touchscreen 800x480
- ✓ Power supply 90-230VAC, 50Hz

Technical specifications

Product:	**AQUATRACE® IV** - R, 19“ rack-device, 1-4 channels
	Performance specifications
Measuring range:	0-2000 Vppm, dew point –100 ° C - 20 ° C, ranges deviating from the standard on request
Accuracy:	+/- 5% of the displayed value, at least 0.4 ppmV | optional 0.04 ppmV
Response time:	dry to wet: T90 <5 sec; Wet to dry: T90 <15 min
Repeatability	+/- 0.1 ppm_V | optional +/- 0.02 ppm_V
Calibration	traceable calibration certificate, n-point calibration/adjustment (optional)
Display	Touchscreen 800x480 pixels, color
	Every measuring channel
Lower detection limit	0.1 ppm_V | optional: 0.01 ppm_V
Measuring range	0-2000 Vppm
Displayed value(s)	In ppm_V or Tp ° C (adjustable)
Transmission rate	32 bit
Data log rate	min. 2 s max 10 min
Sensor detection	automatically
Automatic sensor test	Automatically (fuction test)
Analog output	4-20 mA (freely scalable)
Alarm output	limit value - programmable as floating changeover contact
Channel relay	4 channel relays according to NAMUR (F + S; C + M), per channel (max. 2)
	Measuring cell
Material measuring cell	PVDF or stainless steel
sensor material	Platinum on glass / ceramic or interdigital structure on ceramic substrate
Leakage rate	< 5x10 -7 mbar x l / s
Sample Gas flow	20 Nl/h or 100 Nl/h cell
Sample gas temperature	+5 … +65 °C
Sample gas pressure	approx. 200 mbar overpressure at the measuring cell inlet, pressureless flow out
Gas connections	¼“ NPT inside thread
Cell connection (el.)	5-pin Binder plug, angled
Measuring cable	Customized 2 m; Max. Cable length 100 m

Data logger

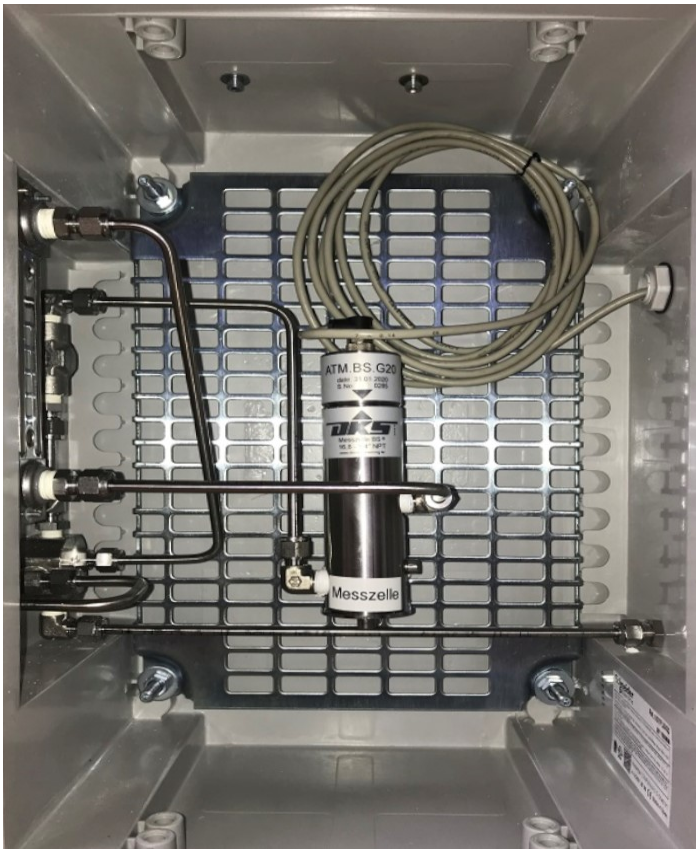
Format	textfile *.csv
int.	daily files
Export type	daily files
separator	*,*
Export via	USB / Ethernet

Messzellen verschiedener Materialvarianten und Sensorausführungen

AQUATRACE® measuring cell for measuring traces of moisture for gas flow 20 or 100 Nl / h	**analyzers**
(1) Version in stainless steel, sensor glass	ATM.BS.G 20/100
(2) Version in stainless steel, ceramic sensor	ATM.BS.K 20/100
(3) Version in PVDF, sensor glass	ATM.BP.G 20/100
(4) Version in PVDF, sensor ceramic	ATM.BP.K 20/100
(5) Version in stainless steel, sensor Pt-interdigital structure	ATM.BS.KoPt 20/100 (especially for HF-containing gases)
(6) Version in PVDF, Pt Pt interdigital structure sensor	ATM.BP.KoPt 20/100 (especially for HF-containing gases)
(7) Measuring cell for use in hazardous areas	like (1) - (6) **+ ZB**
(8) Customer special version possible	ATM.B**X**.**X** 20/100

Option:

Measuring cell installed in an analysis unit with flow monitoring and purging device, 3 and 4-way valves as well as connections for measuring gas and purging gas. On request and 100% individual!



Areas of application:

- Chemical industry (especially for aggressive gases)
- Manufacturer and user of technical and medical gases
- Microelectronics
- Monitoring and testing of compressed air systems
- Machinery - apparatus engineering, refrigeration systems
- Heat treatment, hardening shops
- Research and laboratories

DKS GmbH Engineering und Vertrieb
Radeberger Straße 21
D - 01900 Großröhrsdorf

Tel.: +49 (0) 35952 - 429465
Fax.: +49 (0) 35952 – 429457
EMail: info@dks-engineering.de