TMA-202 Trace Moisture Analysers

ppm H₂O measurement in corrosive gases







- Proven technology, long life
- Choice of analyser configurations
- **Choice of sensor housings**
- Sample systems, simple or bespoke

Applications

- Chlor alkali industry
- Corrosive gas atmospheres, chlorine (Cl₂) and hydrogen chloride (HCI)
- Medical oxygen (O₂) according to **European Pharmacopoeia**
- Combustible gases, CH₄, H₂, (Ex version)





Instruments are designed to give reliable, accurate measurements tough field service over many years.

Even small traces of corrosive gases will contaminate and destroy aluminium oxide type sensors. cmc Instruments Sensors are easily refurbished by the All system components are designed to technology is just as effective in customer. A regular check and withstand the most corrosive gases. For corrosive atmospheres as it is in inert occasional refurbishment results in many instance, PVDF flowmeters, Viton seals gases.

suited to applications where a lower Hastelloy, PFA, stainless steel and glass. Designed flow is preferable and are occasionally Monel is the material of choice for receives a system tailored for their alternative specific application.

Trace moisture analysers from cmc Analysers are available in bench, Sample systems can be simple or portable, wall mount and 19" rack complex. For portable, non-continuous formats. available for hazardous areas (Zone 1) continuous use the sample system is and with the option of purge cabinet usually housed in an enclosure with a enclosures.

years use from a single sensor.

The TMA-202 series is particularly Sensor housings are available in Monel, for non-corrosive your applications.

configurations are use a lightweight system is perfect. For purge option.

> and PFA tubing are standard. Fittings are available in 6mm or 1/4"NPTF.

manufactured and Germany these products represent dirty. Analyser, sensor, sensor housing chlorine use and Hastelloy for hydrogen quality at an affordable price. Sales and sample system are all available in chloride and other corrosive gas use. engineers at cmc Instruments are different options. Thus each customer Stainless steel offers a more economic waiting to offer you the best solution for moisture applications.



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General Specification

Ranging: Autoranging, manual, RS232, external signal (fixed analysers only)

Ranges: 0 - 10 ppm 0 - 100 ppm 0 - 1000 ppm 0 - 2500 ppm

Digital output: 2 volt free alarm

5 volt free range

Analog output: $0 - 20mA (<500\Omega)$ (with range $4 - 20mA (<500\Omega)$ Identification) $0 - 10V (>100k\Omega)$

Display: LCD

Serial port: RS232 Modem

Input: 5 (range switching) (fixed

analysers only)

Sensitivity: ±0.1% fsd

Operating temp.: +5°C - +50°C

Power: 80-230V, 50Hz

Weights and Dimensions

Typical—consult cmc Instruments for exact details

Dimensions (w x h x d) mm:

257 x 160 x 316

Weights net: 6kg

Ordering Information

Part No.	Description
Analysers	
TMA-202	Trace moisture analyser, benchtop version with 3m sensor cable
TMA-202-P	Trace moisture analyser, portable version with rechargeable battery and 3m sensor cable
TMA-202-W	Trace moisture analyser, wall mount version with 3m sensor cable
TMA-202-19"	Trace moisture analyser, 19" rack mount version with 3m sensor cable
Options	
TMA-202/CM	Checkmaster for span check
TMA-202/ZB	Zener barriers installed internally
Sensors	(Note all sensors are also available with rhodium wire)
TMS-SS/P/20	Stainless steel housing, platinum wire sensor, 20 NI/hr flow
TMS-M/P/20	Monel 400 housing, platinum wire sensor, 20 NI/hr flow
TMS-H/P/20	Hastelloy housing, platinum wire sensor, 20 NI/hr flow
TMS-G/P/20	Glass housing, platinum wire sensor, 20 NI/hr flow
TMS-P/P/20	PFA housing, platinum wire sensor, 20 NI/hr flow
Accessories	
TMF-SS/20	Flowmeter, stainless steel, with needle valve
TMF-T/20	Flowmeter, PVDF, with needle valve
TMS-H-PFA	PFA tubing, 6mm diameter, per metre
TMS-SC-S	Sensor cable with standard connector, 3 metre
TMS-SC-PEEK	Sensor cable with PEEK® connector, 3 metre
TMS-SC-ADD	Additional price for longer sensor cable, per metre
Service & spares	
TMW-SET	Complete sensor service kit including goggles, acetone, water, electrolyte, cleaning brush and screwdriver
TMW-ELO	Electrolyte, 150ml (suitable for all sensors)
TMS-OR-FKM	O-ring for sensor, Viton®
TMS-OR-FEP	O-ring for sensor, FEP®
TMS-OR-Kalrez	O-ring for sensor, Kalrez®

Please consult cmc Instruments for detailed part numbers and application information



Choice of sensors and portable stand including 3-way valve and flowmeter



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