TMA-210 Trace Moisture Analysers

ppm H₂O measurement in corrosive gases







- Proven technology, long life
- Choice of analyser configurations and sensor housings
- Fast response
- Easy to maintain sensor

Applications



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





reliable, accurate measurements in formats. 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. corrosive atmospheres as it is in inert occasional refurbishment results in many instance, PVDF flowmeters, Viton seals

suited to applications where a fast Hastelloy, PFA, stainless steel and glass. Designed response is required. The higher flow Monel is the material of choice for system are all available in different alternative options. Thus each customer receives a applications. system tailored for their specific application.

Trace moisture analysers from cmc Analysers are available in bench, Sample systems can be simple or enclosures.

years use from a single sensor.

The TMA-210 series is particularly Sensor housings are available in Monel, for non-corrosive your

Instruments are designed to give portable, wall mount and 19" rack complex. For portable, non-continuous Fixed configurations are use a lightweight system is perfect. For 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 purge option.

> A regular check and withstand the most corrosive gases. For and PFA tubing are standard. Fittings are available in 6mm or 1/4"NPTF.

and manufactured Germany these products represent rate makes this more suitable for non- chlorine use and Hastelloy for hydrogen quality at an affordable price. Sales continuous use, e.g. portables. Analyser, chloride and other corrosive gas use. engineers at cmc Instruments are sensor, sensor housing and sample Stainless steel offers a more economic waiting to offer you the best solution for moisture measurement 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-210	Trace moisture analyser, benchtop version with 3m sensor cable
TMA-210-P	Trace moisture analyser, portable version with rechargeable battery and 3m sensor cable
TMA-210-W	Trace moisture analyser, wall mount version with 3m sensor cable
TMA-210-19"	Trace moisture analyser, 19" rack mount version with 3m sensor cable
Options	
TMA-210/CM	Checkmaster for span check
TMA-210/ZB	Zener barriers installed internally
Sensors	(Note all sensors are also available with rhodium wire)
TMS-SS/P/100	Stainless steel housing, platinum wire sensor, 100 NI/hr flow
TMS-M/P/100	Monel 400 housing, platinum wire sensor, 100 NI/hr flow
TMS-H/P/100	Hastelloy housing, platinum wire sensor, 100 NI/hr flow
TMS-G/P/100	Glass housing, platinum wire sensor, 100 NI/hr flow
TMS-P/P/100	PFA housing, platinum wire sensor, 100 NI/hr flow
Accessories	
TMF-SS/100	Flowmeter, stainless steel, with needle valve
TMF-T/100	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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