

Water Quality Tester

for Subsurface Injection and Production Waters
NACE TM-01-73 and API RP 45



- Rate vs. cumulative volume test (procedure A)
- Suspended solids test (procedure B)
- Adjustable pressure with regulator
- Automated testing
- PC interface
- Easy to handle and to clean
- Gas inlet pressure up to 200 bar

Corrosion engineers in the oil and gas producing industry are often charged with the responsibility of evaluating and controlling the quality of injection waters.

Furthermore, production engineers are confronted with formation clogging by solids in produced water.

Unfortunately, much of the data available is inadequate, misleading, or difficult to interpret.

This instrument is suitable to determine the water quality of produced and subsurface injection water by use of membrane filters according to NACE TM-01-73. According to this method, the sample is pressed through the filter at constant pressure until a certain volume has passed the filter (procedure A) or for a set time (procedure B).

The apparatus comes in two versions: Stand-alone with the ability to store data on a USB stick or with a mandatory PC connection.

It consists of a sample reservoir (5 ltrs max) with two connectors: the pressurized gas inlet and the sample outlet. The sample outlet is connected to the filter holder, which is installed above a sample container on a digital balance.

After adjusting the test pressure on the main unit, the automated test is started by clicking START on the screen. The valve opens and the gas flows into the sample vessel at controlled pressure. The sample is pressed through the filter and into the sample container. The accumulated weight is read out continuously from the balance. When measuring according to procedure A, the valve closes when the set weight is reached.



Stainless steel filter holder

The accumulated volume and the flow rate are displayed on the screen. The data is stored in Excel readable format.



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Automated measurements with WinWQT control and data visualisation software



Pressure inlet up to 200 bar for gas bottle connection (field application)

Technical Data:

Data Acquisition:	Sample pressure and weight (of filtered sample)
Gas supply:	Pressurized air or similar
Input pressure:	5 to 200 bar (HP inlet for gas bottle / field application)
Output pressure:	10 to 50 psi, adjustable
Data interface:	1x USB 1.1 or 2.0
PC:	Standard PC with Windows 7/8/10 and one free USB port (PC not required for standalone version)
Power supply:	100..240 VAC / 50..60 Hz 12..24 VDC (alternatives available)
Power consumption:	150 W max (stand-alone version) 40 W max (version which requires a PC)



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