

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 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 PC 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.

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



Stainless steel filter holder



F₅ Technologie

F5 Technologie GmbH
Im Büchenorte 3
D-31515 Wunstorf
Germany

Tel: +49 5031 68793 13
Fax: +49 5031 68793 18
Email: info@F5-Tech.de
Web: www.F5-Tech.de





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 interfacier:	1x USB 1.1 or 2.0
PC required:	Standard PC with Windows 9x/2k/XP/Vista/7
Power supply:	240 VAC / 50Hz, alternatives available
Power consumption:	40 W max



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