

연속 자동 부식 측정기 (Fixed Continuous Corrosion Monitor)



Model : HYDROSTEEL 7000

용도(Applications)

- 배관 및 석유화학 운송 선박의 부식 활성화도 측정
- HIC 손상 검증, 평가 및 통제
(HIC:Resistance to Hydrogen Induced Cracking)
- 고열에서의 HF, 산에 의한 부식 모니터링
- 파이프 내부 보호 코팅의 완전성 테스트
- 산성 가스관, Amin 배관 부식 모니터링

특징(Features)

- 수소 유출량 연속 자동 측정
- 500°C의 파이프 및 강철 표면에도 측정 가능
- 많은 양의 강우시 완전방수 (특허출원중)
- 10분 단위로 측정, 자료저장 및 아날로그 출력
- -20~55°C의 온도변화 사이에서도 측정 가능
- 다양한 환경에서 측정 가능

SPECIFICATIONS

Measurement Principle	Continuous hydrogen collection and analysis
Certifications	Ingress protection rating IP66 Ex II 2G EEx ia IIC T4 Baseefa 04ATEX0205 US Equivalent NEC 505 Class 1, Zone 1, Gas Group B, T4 NEC 500 Class 1, Division 1, Gas Group B, T4
Accuracy	Logged and output data : $\pm 10\%$ logged reading \pm resolution
Response	< 3 minutes
Resolution	1 pl/cm ² /s (AT-S probe) (note 1 pl = 10 ⁻¹² Litres at s.t.p)
Dynamic Range	AT-F probe : 0 to 2000 pl/cm ² /s
Data Logging	Via analog outputs or internally

Calibration	At factory. Checked with CalCheck Hydrogen
Operation	24 V (accepts 15 – 26 V) d.c.
Analyser Temperature	-20 °C to 55 °C
Probe Temperature	steel surface up to 500 °C

STANDARD COMPONENTS

- Hydrosteel 7000 analyser	includes all sensing, pneumatic, electrical and diagnostic circuits. Solid impact resistant GRP IP66 rated enclosure with support holes for racking, gland connectors for power input, thermocouple input, 2 x 4-20 mA output. Flux and ambient gas and thermocouple inputs.
- Non-intrusive probes	Hydrosteel AT-F for use on steel from -40 °C to 500 °C includes magnetic and banding attachment means for attachment to steel >4" diameter.
- Conduit	Incorporates ambient and flux sample and K-type thermocouple, up to 20 ft or 6 m.
- Software	Enabling downloading of internally stored data via RS-232 in a safe area or with a permit in hazardous areas.
Dimensions	Analyser (excluding ports) : 10 x 16 x 26 mm AT-F probe : 15 cm diameter
Weight	Analyser : less than 2.6 kg Conduit and collector : less than 2.6 kg

CONFIGURATIONS

Hydrosteel 7000 instrument	1 ea
Probes	1 ea
Conduits	1 ea
Certification and documentation	1 ea