CatControl EDI

Total and cation conductivity meter with cation exchange module by Electro Deionization

The EDI module is installed in place of the traditional cationic filter filled with cationic resin. This system allows cation exchange through electro-deionization and therefore automatic and continuous regeneration of the resin. Self-diagnostic functions guarantee maximum reliability and minimized maintenance.

BENEFITS

> Flow monitoring

> Reliable and accurate data

> Simultaneous total and cation conductivity measurements

> Easy integration into existing measurement systems

> Eliminates cation resin replacement

> Compatible with third-party measurement devices

> No periodic maintenance

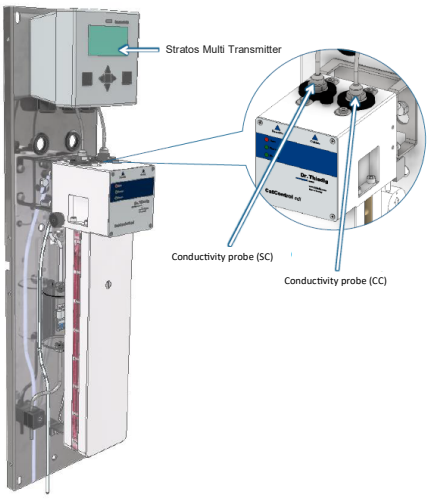
> Reduced operating costs

Stratos Multi Interface

THE SOLUTION

The **new EDI technology proposed by ARCYS and Dr. Thiedig** features its own intelligence, allowing easy integration into existing conductivity measurement systems. The single- and dual-channel transmitter allows the measurement variables pH/ORP, conductivity (conductive or inductive), and oxygen to be freely combined, and can, for example, simultaneously measure pH and conductivity.

With the CatControl EDI module, users have the opportunity to upgrade their existing measurement technology for cation and/or degassed cation conductivity to the latest technical standards. One of the advantages of EDI technology is the "in-situ" regeneration of the resin.



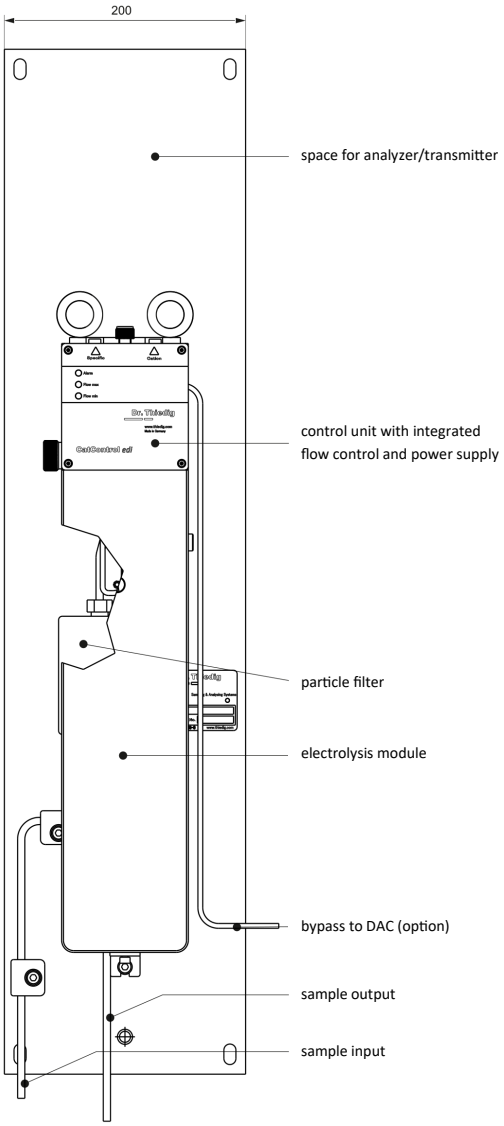
The color TFT graphic display allows for the differentiated display of operating states and errors during programming or measurement according to NAMUR recommendations. The user interface is multilingual and menu-driven..

OPERATING PRINCIPLE

Electrodeionization is a technology that has been used for several years for water treatment. With the CatControl EDI module, the principle of electrodeionization is used in such a way that only cations are removed from a sample using specific membranes that are only permeable to cations.

100%

Compatible with nuclear power plants
EDF DI 2024 approved!



TECHNICAL SPECIFICATIONS

General information			
Dimensions	Standard panel mounting 850 x 200 x 198 mm (H x W x D)		
Weight	6,9 kg		
Power supply	86 < 253VAC; ≤ 30W, 47 < 65Hz, 20 < 36 VDC, ≤ 30W		
Certificates	CEM	EN 61326-1	CE
	Security	EN 61010-1	
Case	IP65, NEMA 4		
Characteristics of the measurement			
Sample pressure	0.5 to 2.0 bar g, sample outlet at atmospheric pressure		
Sample temperature	0 to 45°C		
Ambient temperature	0 to 45°C (Storage 0 to 50°C)		
Response time	T_{90} < 240 seconds @ speed 6 l/h		
Range adjustment (1)	Low and High Conductivity		
Conductivity range (2)		Low conductivity	High conductivity
	NH3	Up to 30 µs/cm	Above 60 µs/cm
	NaOH	Up to 200 µs/cm	Above 700 µs/cm
Speed (3)		6 to 9 l/h	4 to 6 l/h
Electrolysis current		500 mA	1000 mA
Digital outputs	1x contact relay contact, max 2A @ 30VDC (CatControl edi)		

(1) Range settings are made via a jumper on the CatControl EDI module controller board

(2) Conductivity ranges calculated at a flow rate of 7 l/h for low conductivity and 5 l/h for high conductivity

(3) Sample flow rate is measured using a digital flow meter

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Degassed version (without EDI on picture)

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