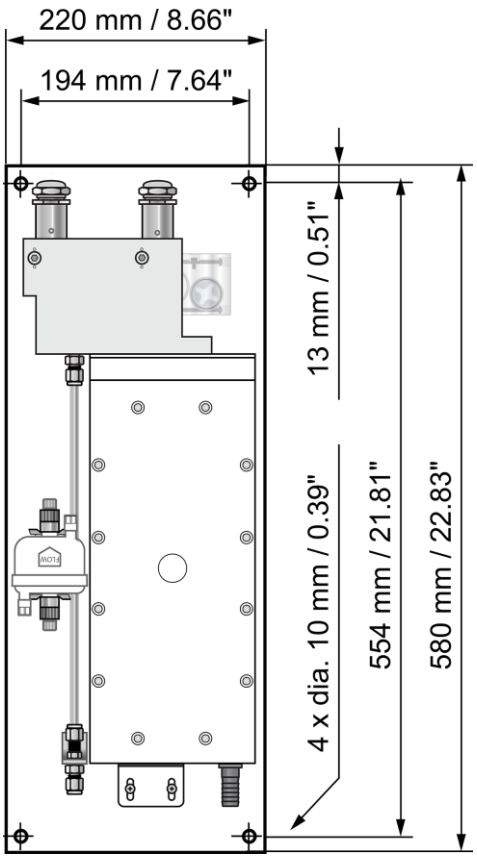
SWAN CACE Module

Data sheet no. DenA873343X0

Analytical module for the automatic, continuous measurement of specific conductivity and conductivity after cation exchange with continuous EDI resin regeneration. For use with transmitter AMI-II CACE.

Application examples

- Uninterrupted monitoring of the water-steam quality in power and industrial plants:
  no need for regular resin exchange and the associated rinsing times and no risk of resin exhaustion.



Measuring range

- 0.055 – 1000 µS/cm.

Instrument features

- Continuous operation with automatic regeneration of the cation exchange resin by electrodeionization (EDI).
- EDI module with exchangeable sample chamber module.
- Flow cell CATCON+ SL CACE and conductivity sensors UP-CON1000 SL with patented slot-lock design for quick sensor release.
- Instrument protection with optional sample filtration.

On-board quality assurance

- Integrated sample flowmeter for measurement validation.
- Tracking of operational parameters of the EDI module to monitor the service life of the sample chamber.

Order numbers:	SWAN CACE Module	A–87.334.3_0
Cable length	5 m 15 m	5 7
Option	Inlet filter (1 µm)	A–82.811.040
Accessories	Backpressure regulator, 1 channel with manometer Verification adapter	A–82.581.001 A–83.910.130

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Conductivity Measurement

Conductivity sensor type
2-electrode conductivity sensor UP-Con1000-SL.

Measuring range:	0.055 – 1000 µS/cm
Accuracy (at 25 °C):	±1% of measured value or ±1 digit (whichever is greater)
Response time (t_{90}, specific cond.):	< 5 s

Auxiliary sensors
- Temperature measurement with Pt1000 type sensors (DIN class A).
  Measuring range: −30 to +250 °C
  Accuracy (0-50 °C) ±0.25 °C
- Sample flow measurement with digital SWAN sample flow sensor.

All specifications are valid in combination with transmitter AMI-II CACE.

Module Data

Sample conditions

Flow rate:	3 to 4 L/h
Temperature:	up to 50 °C
Inlet pressure:	0.5 bar
Outlet pressure:	pressure free

No sand, no oil.

EDI capacity:
sc_{max} = 40 µS/cm as NH_4OH
sc_{max} = 350 µS/cm as NaOH

The use of a SWAN Back Pressure Regulator is highly recommended.
Particle filtration recommended in case of high iron concentration.
Use of film forming products may reduce lifetime of EDI module.

Sample connections

Sample inlet:	Swagelok ¼" tube adapter
Sample outlet:	G 3/8" adapter for flexible tube Ø 20 x 15 mm

Panel

Dimensions:	220 x 580 x 180 mm
Material:	stainless steel
Weight:	13 kg

Please refer to datasheet DenA13542X00 regarding specifications of transmitter AMI-II CACE.