

SIMA-tec® Measurement Box



Dimensions

Size	29 x 33 x 30 cm (L x B x H)
Weight	ca. 12 kg
Material	Aluminium powder-coated
IP Schutzklasse	IP 54

ELECTRICAL DATA

Connection for power supply	230V / 50 Hz / 16 A-CEE
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CONNECTORS

Number of channels*	8
SD-port	1
USB-port	1
RJ45 / Ethernet**	1
Digitaler input	1

The SIMA-tec© Measurement Box can be used for a range of applications. In the following, there will be presented three different types of them as examples:

APPLICATION 1: CUBE 05 und CUBE 05-VA

In Measurement Box containing sensors***

Pressure	0 - 6 bar	(2 pieces)
Material (parts in contact with medium)	Stainless steel 1.4571	
Flow rate (feed) (Magnetic-inductive)	2 – 180 l/h Minimum conductivity 20 µS/cm	(1 Stück)
Material (parts in contact with medium)	Stainless steel 1.4571, PEEK, FKM	
Flow rate (permeat) Magnetic-inductive	0,1 – 10 l/h Minimum conductivity 5 µS/cm (20 µS/cm for purified water)	(1 piece)
Material (parts in contact with medium)	V4a / PEEK	
Temperature****	0 - 100 °C	(1 piece)
Material (parts in contact with medium)	Stainless steel 1.4571	

APPLICATION 2: CUBE 80-VA

In Measurement Box containing sensors***

Pressure	0 - 100 bar	(2 pieces)
Material (parts in contact with medium)	Stainless steel 1.4571	
Flow rate (feed) (Magnetic-inductive)	2 – 120 l/h Minimum conductivity 20 µS/cm	(1 Stück)
Material (parts in contact with medium)	Stainless steel 1.4571, PEEK, FKM	
Flow rate (permeat) Magnetic-inductive	0,1 – 10 l/h Minimum conductivity 5 µS/cm (20 µS/cm for purified water)	(1 piece)
Material (parts in contact with medium)	V4a / PEEK	
Temperature****	0 - 100 °C	(1 piece)
Material (parts in contact with medium)	Stainless steel 1.4571	

APPLICATION 3: LRo04

In Measurement Box containing sensors***

Pressure	0 - 6 bar	(2 Stück)
Material (parts in contact with medium)	V4a	
Flow rate (feed) (Magnetic-inductive)	12 – 3000 l/h Minimum conductivity 20 µS/cm 0-70 °C	(1 Stück)
Material (parts in contact with medium)	Stainless steel 1.4571,PEEK,FKM	
Flow rate (permeat) (Magnetic-inductive)	2 – 180 l/h Minimum conductivity 20 µS/cm	(1 Stück)
Material (parts in contact with medium)	Stainless steel 1.4571,PEEK,FKM	
Temperature	0 - 100 °C	(1 piece)
Material (parts in contact with medium)	Stainless steel 1.4571	

* optional: 12 channels

** Analysis of measured data either via "Field Data Management Software" or integration into network feasible

*** all sensors are powered by the Measurement Box (Plug and Play)

**** only for the CUBE 05-VA configured with a stainless steel test cell a temperature measurement is available at the membrane. Otherwise the temperature measurement is realized at the storage tank