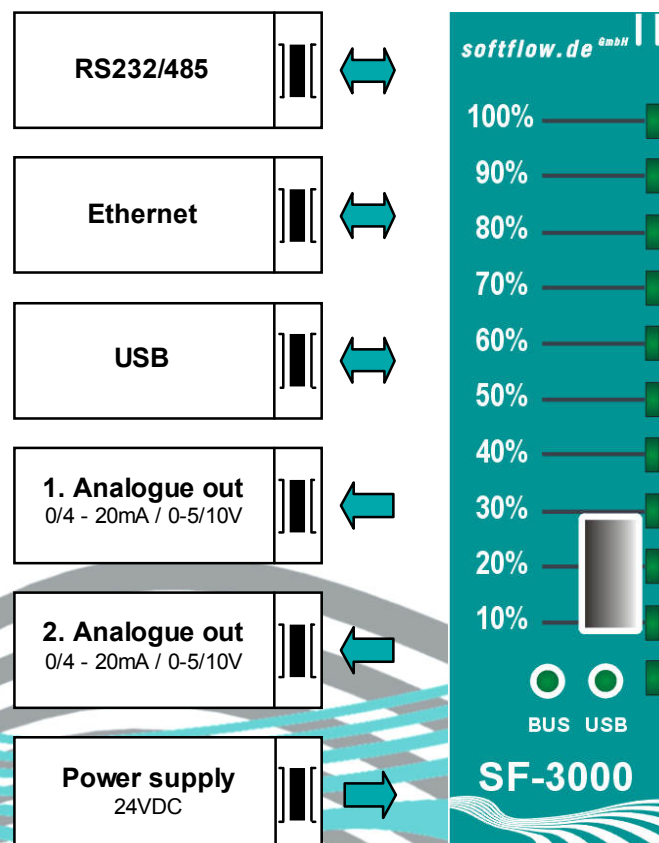




## DIN Rail Mounting System SF-3000 For Calorimetric Flow Measurement

- Top-hat rail housing (W)22,5mm x (H)14,5mm x (L)99mm  
5 x 4 pin plugged screw connection for all inputs and outputs (max.1,0mm<sup>2</sup>), Ethernet via Ethernet connector
- Without *Wheatstone Bridge*
- Microprocessor based, full digital controlled, complete and automatically compensation of temperature conditioned signal drifting. Digital conductivity compensated adjustment of heater over temperature
- Isolated Ethernet, USB and RS232/485 interfaces
- 2 digital controlled and adjusted high accuracy current and voltage output, full isolated
- Temperature sensor for compensating of analogue drift





## DIN Rail Mounting System SF-3000 For Calorimetric Flow Measurement

<i>Design</i>	Top-hat rail housing with separate Insertion probe
<i>Function Principle</i>	Calorimetric, primary signal mass flow proportional
<i>Probe</i>	With 2 x Pt100 sensor elements, in 1.4571 stainless steel sheath Diameter=12mm, length 120/250mm (Standard), maximal up to 1500mm Diameter=25mm, length up to 1500mm
<i>Medium</i>	Air, dry, different gases are possible
<i>Measuring Range</i>	0,6-60m/s (1:100) at norm conditions 0°C / 1,013bara
<i>Stored Calibration Curve</i>	60 points, firmware internal Spline interpolation
<i>Flow Accuracy</i>	+/-2% from reading value >= 5m/s > +/-0,1m/s
<i>Flow Repeatability</i>	+/-0,5% from reading value
<i>Response Time (T90)</i>	< 1,5sec
<i>Warming Up Time</i>	5min after switching on
<i>Operating Gas Pressure</i>	maximal 16bara (higher pressure on request)
<i>Operating Temperature</i>	-40°C to +100°C (standard), 0°C to +200°C / 300°C / 400°C / 420°C
<i>Ambient Temperature</i>	-20°C to +60°C
<i>Installation Position</i>	unrestricted
<i>Steadying Distance</i>	30 x pipe diameter upstream, 10 x pipe diameter downstream. The minimum steadying distance depends upon the application Longer steadying distances have to be considered, if double elbows or partly closed valves have been installed in front of the unit
<i>Probe Process Connection</i>	Welding socket with G1/2" female thread
<i>Remote Electronic Converter</i>	Microprocessor based, complete and automatically compensation of temperature conditioned signal drifting. Digital conductivity compensated adjustment of heater over temperature
<i>Power Supply</i>	24VDC(18-36VDC)
<i>Power Consumption</i>	< 5Watt
<i>Protection Class</i>	Electronic=IP20, Probe=IP65
<i>Sensor Input</i>	1xPt100 heater, four-wire technique, 1xPt100 reference, four-wire technique
<i>Signal Output / Input</i>	2 x 0-5/10VDC or 0/4 – 20/24mA flow proportional, RS232 / 485, USB and Ethernet for configuration and data
<i>Display</i>	LED-Bargraph, 0-100%, 11 dots with 10 brightness steps, 3 colors
<i>Display Indication Values</i>	Mass flow level detection
<i>Dimensions</i>	(W)22,5mm x (H)14,5mm x (L)99mm
<i>CE Approvals</i>	Low tension instruction 73/23/EEC / EMC-Standard 89/336/EEC
<i>Connecting Cable Electronic Converter To Probe</i>	Length 5m (standard), optional 10m, different lengths are possible
<i>Electrical Connections</i>	5 x 4 pin plugged screw connection for all inputs and outputs (max.1,0mm <sup>2</sup> ) Ethernet via Ethernet connector

