



## Flow Sensors SDNC 500

Compact flow sensors for liquids, with IO-Link interface



- Flow and temperature measurement
- Conveniently adjustable via IO-Link interface
- Process data can also be used for remote maintenance
- Analog and switching output in SIO-mode available



## Flow Sensors SDNC 500

Kompakte Flow Sensoren für Flüssigkeiten / Strömungslinearsensoren

Durchflussüberwachung und -messung von Flüssigkeiten mit IO-Link-Schnittstelle

### Application

SDNC 500 sensors with IO-Link function are the smart solution for process monitoring. They can measure the flow speed and temperature in fluid mediums. To do so, there is a configuration software which configures the sensors via an IO-Link / USB master. The models ...GAPL provide flow data for water-based mediums as a linear output signal.

### Functions

Limit value / range value monitoring

- Analog output
- Pulse output flow
- Teach functions
- Logic linking
- Switching delay

### Installation

Hoses and pipe couplings can be easily connected using the G1/4 thread. A special screw adapter shapes the flow profile and provides a linear signal of the SDNC 50X GAPL. The stable construction makes the sensors insensitive to moisture and vibrations.

Types	
SDNC 502 GAPL	water-based media, 0,020...0,500 l/min, linearized
SDNC 503 GANPL	for all liquid media
SDNC 503 GAPL	Water-based media, 0,05...2,00 l/min, linearized
SDNC 506 GANPL	for all liquid media
SDNC 506 GAPL	water-based media, 0,10...4,00 l/min, linearized
SDNC 508 GANPL	for all liquid media
SDNC 508 GAPL	water-based media, 0,20...8,00 l/min, linearized



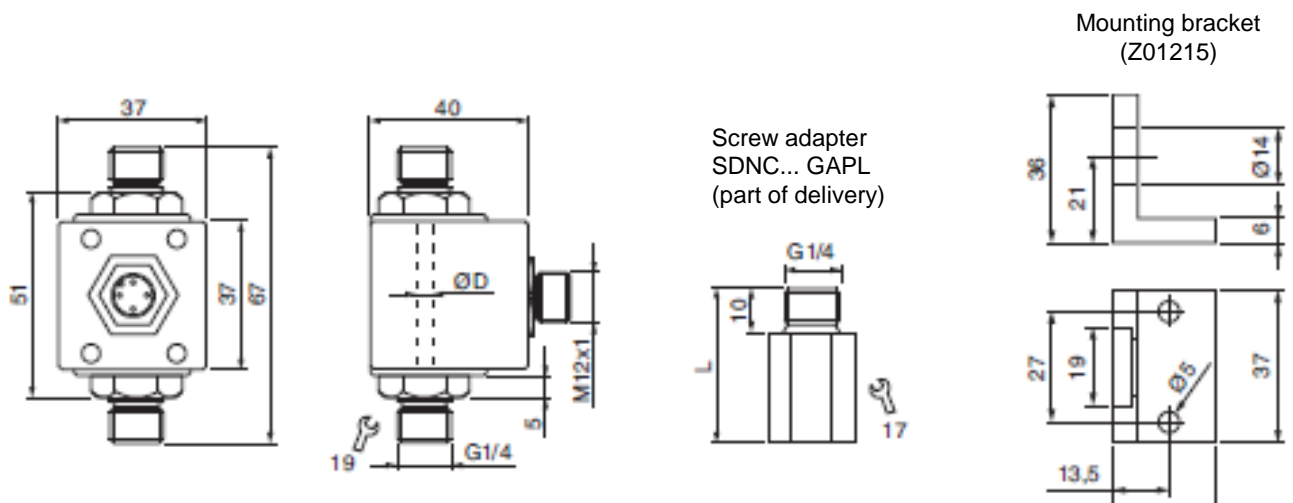
- 1: USB-connecting cable (to the PC / Notebook)
- 2: IO-Link-USB-Master
- 3: Sensor-connecting cable
- 4: Sensor



## Flow Sensors SDNC 500

Kompakte Strömungswächter und Strömungsmessgeräte

Durchflussüberwachung und -messung von Flüssigkeiten mit IO-Link-Schnittstelle



Technical data				
<b>Detection range Liquids</b>	<b>Depending on medium</b>			
<b>ID-No.</b>		<b>P11376</b>	<b>P11378</b>	<b>P11380</b>
<b>Type</b>		<b>SDNC 503 GANPL</b>	<b>SDNC 506 GANPL</b>	<b>SDNC 508 GANPL</b>
Measuring tube ØD [mm]		3,5	5,5	7,5
Process data				
Flow [steps]		0...1023	0...1023	0...1023
Temperature [°Cx0,1]		0...600	0...600	0...600
<b>Detection range Water-based media [l/min]</b>	<b>0,020...0,500</b>	<b>0,05...2,00</b>	<b>0,10...4,00</b>	<b>0,20...8,00</b>
Resolution [l/min]	0,001	0,01	0,02	0,05
<b>ID-No.</b>	<b>P11381</b>	<b>P11375</b>	<b>P11377</b>	<b>P11379</b>
<b>Type</b>	<b>SDNC 502 GAPL</b>	<b>SDNC 503 GAPL</b>	<b>SDNC 506 GAPL</b>	<b>SDNC 508 GAPL</b>
Measuring tube ØD [mm]	3,5	3,5	5,5	7,5
Process data				
Flow [l/min]	0...0,5	0...2	0...4	0...8
Temperature [°C]	0...60	0...60	0...60	0...60
Adapter L [mm]	28	28	28	100

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Durchflußüberwachung und -messung von Flüssigkeiten  
mit IO-Link-Schnittstelle

Technical data	
Voltage [V]	18...30 DC
Current consumption [mA]	≤40
Switching output [mA]	150 (25°C)
Analog output [mA]	4...20
Ambient temperature [°C]	0...60
Medium temperature [°C]	0...60
Reaction time <sup>1</sup> [s]	0,5
Compressive strength [bar]	10
Sensor material	AISI 316 Ti
Housing material	PBT-GF30
protection [EN 60529]	IP 67
Connection	M12 connector

1 depending on medium and on operation parameters

IO-Link-Specification	
Revision	1.1
Baud rate	COM 2
Minimum cycle time [ms]	3,50
Process data [Byte]	4

Accessories (Selection)			
	Cable	Mounting bracket	IO-Link-USB-master-set
ID-No.	Z00446	Z01215	Z01216
Type	SLW 4-2	Mounting bracket	IOL-Master-Set V1.1
Design	Cable plug housing M12x1 2 m PVC-cable 4x0,25 mm <sup>2</sup>	Bracket 37x25x26 mm (BxLxH) Aluminium	IO-Link-Master Connection cables Power supply

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