

Capacitive analogous filling level probe

Filling level measurement with liquids

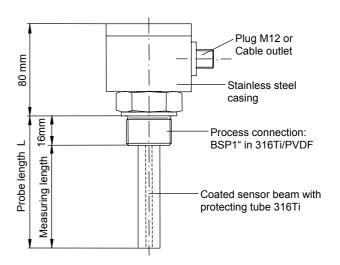
CPA 01



- Analogous output 4-20mA proportional to filling level
- ► Max. measurement range: 2000 mm; also suitable for short measuring
- ► Simple calibration at keypress
- Operating pressure max. 16 bar
- Vertical installation
- ► Thread BSP1" and protective tube in stainless steel 316Ti
- Electrical connection:Cable outlet, plug M12
- Measuring accuracy:1% of measurement range
- ► Material housing in stainless steel 304
- ► Tube and sensor beam are exchangeable and can be shortened



Dimensions



Application:

For liquids with low dielectricity, such as oil, hydraulics, cooling lubricant, emulsions, water, diesel, etc., suitable for metal and plastic container

Scope of Application:

Process and manufacturing technology, environmental technology, water engineering, plant and mechanical engineering, lubricant technology, commercial vehicle construction, dosing systems etc.



Description

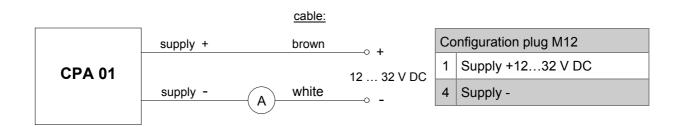
The sensing probe and the protecting tube are building an electrical condenser when being immersed into the liquid. The capacity of the condenser changes with its filling level.

An electronic system integrated into the device converts the capacity change into an electrical standard signal 4-20mA proportionally to the filling level.

Calibration 0% and 100% is made at keypress (TEACH IN).

The CPA 01 will be programmed by the factory if required by the customer (0% and 100% marker can be set if required by the customer).

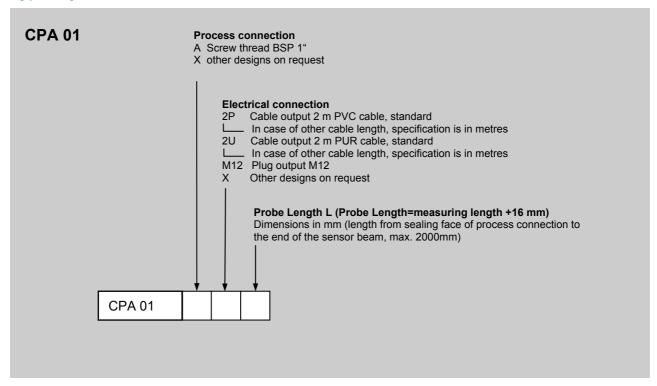
Electrical connection



Technical data			
Operating voltage Output	12 – 32V DC 4-20mA (2-wire)	Process connection	BSP1" of 316Ti / PVDF length of the thread: 16 mm
Measuring accuracy	1% of measuring length	Electrical connection	plug M12 or cable outlet
Environmental temp.	-30°C to +70°C	Probe length L	max. 2000 mm
Medium temperature	-30°C to +100°C	Casing	Ø 67x55 mm of stainless steel 304
Pressure	max. 16 bar	Sensor beam	Ø 5 mm made of stainless steel,
Protection class	IP65		coated with elastomer-hose



Type key, order scheme



Accessory: Circular connector M12

Туре		Item number	Design
Coupling M12 with	2 m PVC cable	K12PVC 2	
	5 m PVC cable	K12PVC 5	
	2 m PUR cable	K12PUR 2	
	5 m PUR cable	K12PUR 5	
Angle coupling M12 with	2 m PVC cable	W12PVC 2	
	5 m PVC cable	W12PVC 5	
	2 m PUR cable	W12PUR 2	
	5 m PUR cable	W12PUR 5	

Colour identification		
1	brown	
4	black	



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