



UP56 Pure

Pure reliability

LEVEL SENSORS

SICK
Sensor Intelligence.



Technical data overview

Measurement principle	Ultrasonic sensor
Detection principle	Non contact
Medium	Fluids
Measurement	Switch, Continuous
Process temperature	-25 °C ... +85 °C
Process pressure	0 bar ... 6 bar, gauge pressure for UP56 Pure mini (depending on type) (depending on type)
Output signal	1 x PNP + 4 mA ... 20 mA / 0 V ... 10 V 4 mA ... 20 mA 4 mA ... 20 mA, 2-wire (depending on type) (depending on type)

Product description

The non-contact ultrasonic level sensors from the UP56 Pure product family are a range of products specialized for wet chemical processes in the electronic and solar industry. Due to their PTFE-protected transducer they are very hardwearing and durable and are designed to be used in highly concentrated acids and alkalines. The UP56 Pure is easy and fast to integrate thanks to the industry-specific GF process connection. A high level of accuracy can also be achieved with fluctuating liquid densities, thus facilitating the use of dosing applications. In systems where the installation is extremely cramped, the UP56 Pure Mini is the perfect solution thanks to its very compact design. The use in containers with a lot of built-in components is easily resolved by means of an immersion pipe. The measurement range, output, and filters of the UP56 product family is easy and convenient to adjust with the PC-based programming tool Connect+.

At a glance

- Ultrasonic level sensor with very high chemical resistance
- Non-contact measurement in immersion pipe of up to 1,500 mm
- PTFE-coated membrane and GF D40 process connection made of PTFE
- Pressure resistant up to 6 bar, temperature resistant up to 85 °C
- Different sizes available
- Analog output selectable between 4 mA to 20 mA and 0 V to 10 V
- Switching output for monitoring the maximum and minimum limit

Your benefits

- Non-contact and non-wearing measurement reduces maintenance and servicing cost
- Sensor replacement possible even with chemicals present, thus saving time and increasing availability
- Universally applicable with acidic and alkaline processes
- Flexible measurement system for different container sizes provides cost reductions
- High accuracy measurements, even in liquids with density fluctuations
- Faultless operation with very limited installation space in the tote
- Switching output and analog output in a single sensor reduces time and money spent on wiring
- Simple and time-saving configuration with Connect+

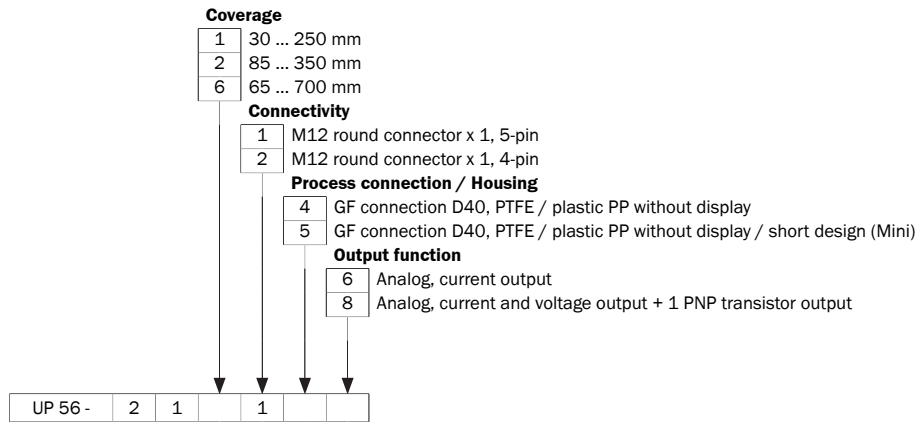
Fields of application

- Fill level measurement of wet chemical processes in the electronics and solar industry
- Fill level measurement of feed tanks for the additional dosing of acids and alkalines
- Fill level measurement of equalizing and compensating reservoirs

Type code

Other models and accessories → www.sick.com/UP56_Pure

Type code



Not all variants of the type code can be combined!

Ordering information

Other models and accessories → www.sick.com/UP56_Pure

- **Process connection:** GF connection D40
- **Output signal:** 1 x PNP + 4 mA ... 20 mA / 0 V ... 10 V
- **Housing material:** PTFE, PP
- **Connection type:** round connector M12 x 1, 5-pin
- **Process temperature:** -25 °C ... +85 °C
- **Process pressure:** 0 bar ... 6 bar

Measuring range in tank	Measuring range immersion tube	Type	Part no.
30 mm ... 250 mm	30 mm ... 500 mm	UP56-211148	6048942
65 mm ... 700 mm	65 mm ... 1,500 mm	UP56-216148	6049450
85 mm ... 350 mm	85 mm ... 1,300 mm	UP56-212148	6048943

- **Process connection:** GF connection D40
- **Output signal:** 4 mA ... 20 mA
- **Housing material:** PTFE, PP
- **Connection type:** round connector M12 x 1, 5-pin
- **Process temperature:** -25 °C ... +85 °C
- **Process pressure:** 0 bar ... 2 bar, gauge pressure for UP56 Pure mini

Measuring range in tank	Measuring range immersion tube	Type	Part no.
30 mm ... 250 mm	30 mm ... 500 mm	UP56-211156	6050441
85 mm ... 350 mm	85 m ... 1,300 m	UP56-212156	6049945

- **Process connection:** GF connection D40
- **Output signal:** 4 mA ... 20 mA, 2-wire
- **Housing material:** PTFE, PP
- **Measuring range in tank:** 65 mm ... 700 mm

Measuring range immersion tube	Connection type	Process temperature	Process pressure	Type	Part no.
65 mm ... 1,500 mm	Round connector M12 x 1, 5-pin	-25 °C ... +85 °C	0 bar ... 2 bar, gauge pressure for UP56 Pure mini	UP56-216156	6049617

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com