

# esPRO<sup>®</sup> Ultrasonic Clamp-On Flow Sensor

The sensors ESPRO-14.65/xxxPI V2.0 – designed as clamp-on-sensors with flexible inlay – detect the flow rate of liquids in rigid tubes of different diameters within a few milliseconds. Industrial applications in the semiconductor industry are typical: use in wafer cleaning equipment, lithography equipment, mixing equipment, chemical supply systems or slurry lines. The sensors have no contact to the fluid and are suitable for all applications with strict hygienic requirements, e.g. biotechnology, pharmaceutical industries or chemical industry. Due to the switching output the sensors support industrial dosing applications. The RS-485 interface allows bus operation. The ESPRO-14.65/xxxPI V2.0 sensors with complete built-in electronics can be installed in machines or apparatuses.



## Benefits

- Highly precise ultrasonic clamp-on flow sensor
- Flow measurement of up to 400 L/min
- Innovative contact-free architecture to eliminate risk of contamination and leakage, thus increasing uptime
- Use at PFA, PTFE or other hard plastic tubes and pipes
- No system downtime in case of sensor exchange or retrofit
- Sensor set for hazardous environments according to ATEX / IECEx (Ex Zone 1)
- Support of all current industrial interfaces

ITEM	MEASURING CHANNEL WIDTH   WIDTH WITH INLAY	STANDARD TUBING OD	DIMENSIONS (L X W X H)	WEIGHT
ESPRO-14.65/080PI V2.0	8 mm   5 mm	1/4	44 × 44 × 34 mm	90 g
ESPRO-14.65/120PI V2.0	12 mm   8.5 mm	3/8	44 × 44 × 38 mm	100 g
ESPRO-14.65/160PI V2.0	16 mm   12 mm	1/2	44 × 56 × 41 mm	130 g
ESPRO-14.65/190PI V2.0	19.5 mm   17.8 mm	3/4	50 × 76 × 54 mm	260 g
ESPRO-14.65/260PI V2.0	26 mm   23.4 mm	1 "	50 × 76 × 60 mm	280 g
ESPRO-14.65/340PI V2.0	34 mm   32 mm	1.32 "	58 × 84 × 62 mm	340 g
ESPRO-14.65/500PI V2.0	50 mm   45.4 mm	48.5 mm	70 × 116 × 75 mm	840 g
ESPRO-14.65/630PI V2.0	63 mm   57.4 mm	61 mm	80 × 130 × 90 mm	950 g

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