

VIex Probe - PI

The VIex-PI Probe is a high-resolution endoscope especially suited for inline measurements in production environments with potential explosive atmospheres.



The protective tube with the endoscopic optics inside can be inserted into the process and particle information can be analyzed via image analysis. There are numerous process connectors available, depending on the installation point. This document describes the standard configuration.



Complete your system:

- Reflectors for transfection
- Purging & cooling tube
- Exchangeable protection tube
- Ceramat WA155 compatible
- TCP/IP connection to PCS

Parameter	Specification
Particle Size Range	2 – 300 µm
Field of View (diag.)	710 µm
Dimensions & Weights	
Housing	Length: 257 mm Diameter: 87 mm
Protection Tube	Wetted length: 320 mm* Wetted tube diameter: 12 mm
Weight	37 kg (including Electronic Junction Box)
Materials	
Housing	1.4404 (316L)
Protection Tube	1.4404 (316L)**
Probe Tip Window	Sapphire
Solder	Au/Sn 80/20
Technical Data	
Permissible Process Temperature	-10 – 130°C (temperatures up to 450°C achievable with cooling tube accessory)
Permissible Ambient Temperature	0 – 40°C
Permissible Process Pressure	0,01 – 10 bar (higher pressure ratings up to 320 bar on request)
Camera	GigE Vision camera, 6.1 MP, 19 fps
Power Supply	141 VA (50-60 Hz)
Cable	Standard length: 4 m Bending Radius: 19 cm
Approvals	
Protection	IP 65
Compliance	CE, RoHS conform according to 2011/65/EU
ATEX certification	II 2G Ex db op pr [op is IIB+H2] IIB T4 Gb II (2D) [Ex op is IIIC Db]

* Longer probes available on request.

** The following materials are also available on request:
1.4571 (316Ti), 2.4602 (C22 Hastelloy)