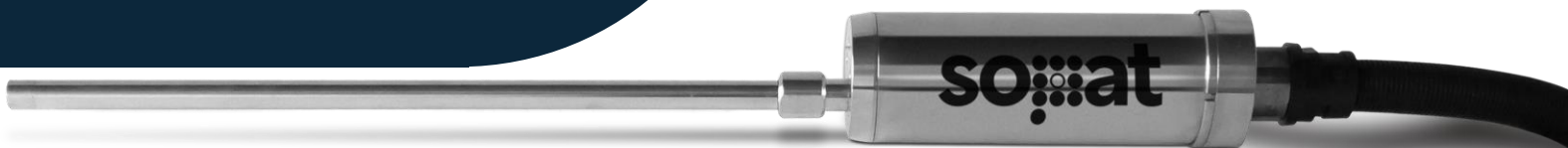


# VIex Probe - PI

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



This probe can be directly inserted into a running process to retrieve particle size and shape information via image analysis. The ATEX probe is permanently connected to the green Electronic Junction Box. It can be equipped with cooling and purging tubes to increase its applicability range.

There are also numerous process connectors available, such as flanges, compression fittings, and (for probes with non-replaceable protection tubes, 320 mm length and 12 mm diameter) the Knick Ceramat W155 retractable fitting.



### Complete your system:

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

| Parameter                       | Specification   |
|---------------------------------|---|
| Particle Size Range             | 2 – 300 µm  |
| Field of View (diag.)           | 710 µm  |
| <b>Dimensions &amp; Weights</b> |   |
| Housing                         | Length: 257 mm<br>Diameter: 87 mm   |
| Protection Tube                 | Wetted length: 320 mm*<br>Wetted tube diameter: 19.05 mm (3/4")               |
| Weight                          | 5 kg (probe), 5 kg (cable), 37 kg (box)                                       |
| <b>Materials</b>                |   |
| Housing                         | 1.4404 (316L)   |
| Protection Tube                 | 1.4404 (316L)**   |
| Probe Tip Window                | Sapphire  |
| Solder                          | Au/Sn 80/20   |
| Cable                           | PMA antistatic cable, specially formulated polyamide 12, 42.5 mm OD           |
| <b>Technical Data</b>           |   |
| 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, color camera optional                     |
| Power Supply                    | 141 VA (50-60 Hz)   |
| Cable                           | Standard length: 4 m<br>Bending Radius: 19 cm                                 |
| <b>Approvals</b>                |   |
| Protection                      | IP 65   |
| Compliance                      | CE, RoHS conform according to 2011/65/EU                                      |
| ATEX marking                    | 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)



Make every detail count