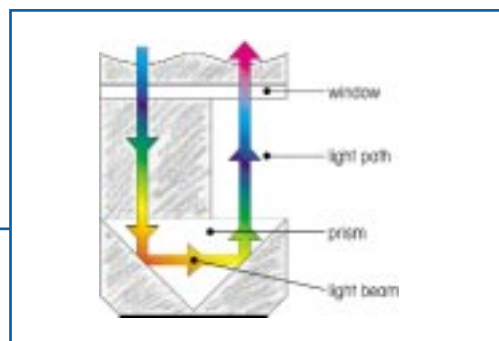


### 3.2.2 All-Quartz Immersion Probes

All-quartz immersion probes from Hellma have a probe head made of SUPRASIL® 300 quartz that is fused to a quartz tube, forming a leakproof seal. For this reason, these probes are particularly useful for transmission measurements in corrosive solutions, where the use of metal probes is not practical. The collimated light beam passes the solution to be measured only once, equivalent to a measurement in a cell. The use of a deflecting prism with two fully reflective surfaces leads to very low values for stray light.



661.302



661.500

### 3.2.2 All-Quartz Immersion Probes

Catalogue Number	661.302-UV 661.302-NIR 661.302-UVS	661.500
Probe head material	Quartz SUPRASIL® 300	Quartz SUPRASIL® 300
Barrel material	Quartz	Quartz
Probe head seal	directly fused	directly fused
Outside Ø probe head	15 mm	15.5 mm
Outside Ø quartz barrel	18 mm	Taper NS 19/35
Total length	approx. 270 mm (10 mm light path)	approx. 200 mm (10 mm light path)
Max. immersion depth	120 mm (10 mm light path)	120 mm (10 mm light path)
Light path	1 mm, 2 mm, 5 mm, 10 mm, 20 mm, 50 mm	1 mm, 2 mm, 5 mm, 10 mm, 20 mm, 50 mm
Typ. transmission	<b>UV/Vis</b> ca. 40% in air above 300 nm <b>NIR</b> ca. 40% in air above 400 nm	<b>UV/Vis</b> ca. 40% in air above 300 nm <b>NIR</b> ca. 40% in air above 400 nm
Max. pressure	6 bar	0.5 bar
Max. temperature	150 °C	150 °C
Fibre-optic cables	Built-in and only replaceable by manufacturer <b>UV/Vis-2 m*</b> 240 nm–1100 nm (41,667 cm <sup>-1</sup> –9,100 cm <sup>-1</sup> ) <b>NIR-2 m*</b> 400 nm–2300 nm (25,000 cm <sup>-1</sup> –4,348 cm <sup>-1</sup> ) <b>UV/Vis-low solarisation-2 m*</b> 190 nm–1100 nm (52,632 <sup>-1</sup> –9,100 cm <sup>-1</sup> )	Not included, available separately for UV/Vis and NIR ranges (see chapter 3.3.1 and 3.3.3).

\*Fibre-optic cables available in various lengths.