

MIR-ATR-SENSOR

Hellma Process Sensors

Hellmas process sensors contain all components of a full-sized spectrometer system combined in one compact device. These predeveloped sensors are ready to be tailored to customer needs and the individual application requirements.



DEFAULT PROPERTIES

	Designation		MIR-ATR-Sensor
-	Measurement principle		attenuated total reflection (ATR)
	Technology Measuring range		Filter spectrometer
			8 wavelengths selectable in mid infrared (2-14µm)
			e.g. dedicated filters for technical oil applications: 3876cm ⁻¹ , 3390cm ⁻¹ , 1724cm ⁻¹ ,1536cm ⁻¹ 1151cm ⁻¹ , 974cm ⁻¹ and 2110cm ⁻¹ (2x reference channel)
	Materials	ATR-crystal:	ZnSe (*others on request e.g. diamond, sapphire)
>		Housing:	stainless steel / aluminum (*others on request)
		Probe:	stainless steel 316L (*others on request)
	Communication interfaces		USB, Ethernet, CanOpen
	Result calculation		PC
	Process interface		tailored to customer requirements
	Sample properties		Fluids, solids, pastes, powders
	Operating pressure		< 30 bar (probe)
	Operating temperature		< 70°C (housing); 260°C (probe)



All sensor characteristics can be adapted to customer requirements