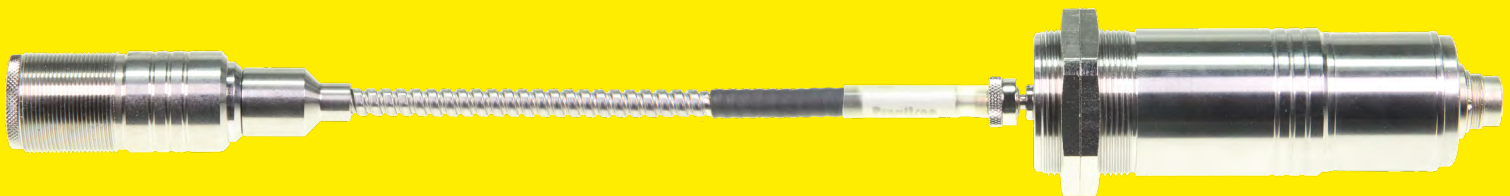


# Ratio Pyrometer OKSL Q

700°C ... 1800 °C

Non-contact temperature measurement of moving objects, e.g. casting stream

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# Ratio Pyrometer OKSL Q

Ratio Pyrometer OKSL Q makes the measurement of highly fluctuating metal objects possible. Thanks to its special optics, accurate measurement is achieved already at 10% coverage of the measuring spot, which makes this model ideal for monitoring and control tasks in foundries or in the wire production. The ratio correction provides very high accuracy no matter what the surface properties are, or if the emissivity of the metal objects varies. The incorporated LASER light makes precise alignment on the object to be measured easier, as the light dimension approximately represents the measurement spot. The optics and the fibre light cable are suitable for ambient temperature up to 250 °C, which allows measurement quite near the hot material. The device is provided with a connector with 0/4-20 mA analog output in 24 V DC, and also with a RS-485 interface with galvanic isolation, allowing the parallel operation of up to 32 devices via MODBUS RTU.

Through the multilingual Windows software, included in the supply, it is possible to adjust the measurement range and emissivity, as well as to display the temperature values in °C / °F, evaluate and record them. Also max and min. storage value and the measuring rate can be set. Separate connection cables and fibre optic cables are available in several lengths.



- Temperature measurement range 700 ... 1800 °C
- Temperature measurement of moving metals
- Temperature control during iron pouring
- Process control at wire cooling
- Casting
- Rolling
- Wire plants
- Foundries
- Measurement independent of emissivity
- Special optics for measurement with only 10% coverage
- Fibre optic cable and optics up to +250 °C
- Integrated memory for minimum and maximum value
- RS 485 interface with galvanic isolation
- Adjustment of temperature range, emissivity and measuring rate possible via software

Measurement range	<b>700 - 1800 °C</b>
Application	metals
Spectral range	0,7 µm ... 1,1 µm
Ratio correction	yes
Accuracy	0,5 %
Response time (t <sub>95</sub> )	5 ms
Output	0/4 -20 mA
Digital interface	RS-485 (MODBUS RTU)
Incorporated pilot light	yes (LASER)
Housing [mm]	M40 x 125
Housing material	stainless steel
Ambient temperature	0 ... +70 °C fibre optic cable and optics up to +250 °C
Electronics type	<b>OKSL Q18.194 S10</b>
Optics type	<b>DAK 323</b>



OKSL Q18.194 S10 with fibre optic cable and DAK 323	Measurement distance a [mm]	0	100	300	800	1000	2000	4000
	Measurement spot diameter M [mm]	5	6,5	10,4	22,2	27,5	55	111

Accessory	Mounting bracket	Connection cable	Fibre optic cable	air purge
Type	<b>DAK 304</b>	<b>ST S10/12-2</b>	<b>LLKS 3</b>	<b>DAK 325</b>
Description	mounting bracket for OKSL	length 2 m	length 3 m	air purge unit for optics
Type	<b>DAK 324</b>	<b>ST S10/12-5</b>	<b>LLKS 6</b>	
Description	mounting bracket for optics	length 5 m	length 6 m	
Type			<b>LLKS 10</b>	
Description			length 10 m	