SPRINT 8

DIGITAL THERMOMETER FOR INDUSTRIAL PROCESSES

0 °F to 1800 °F / 32 °F to 1800 °F

LAND

AMETEK®

QUALITY CUSTOMER SOLUTIONS

SPRINT 8

DIGITAL THERMOMETER

FOR INDUSTRIAL PROCESSES

Sprint 8 thermometers are compact, rugged, industrial and non-contact with digital signal processing, USB configuration (via the EasySpot configuration software) and simple, easy to implement 2-wire, 4-20mA loop connectivity.

Models with optional Green LED aiming diodes are available. This feature simplifies alignment when a measurement object is otherwise difficult to target. The Green LED spot size and location approximates the actual measurement spot size at the measurement distance.

To make installation easy Sprint 8 is housed in a solid stainless steel tubular body with a 40mm x 1.5 external thread. Optional cooling jackets and air purges allow Sprint 8 to operate in hostile environments.

Sprint 8 is supplied with two 40mm locknuts, EasySpot Setup Software and User Guide.

Please order the thermometer connection cable and USB configuration cables separately.

OPTICAL VARIANTS

Optics (focus point **bold**)		**4" Focus**									
Spot Size in mm / Distance in mm		0	50	**100**	150	200	250	300	400	500	800
Sprint 8 (L)-4	32-1800°F	15	8.5	**2**	10.5	19.0	27.5	36.0	53.0	70	121
		12" Focus									
Spot Size in mm / Distance in mm		0	100	200	**300**	400	500	600	800	1000	1200
Sprint 8 (L)-12	32-1800°F	15	12.0	9.0	**6.0**	13.0	20.0	27.0	41.0	55.0	90
		30" Focus									
Spot Size in mm / Distance in mm		0	200	400	600	**800**	1000	1200	1500	2000	4000
Sprint 8 (L)-30	32-1800°F	15	15.3	15.5	15.8	**16.0**	23.8	31.5	43.1	62.5	140
		48" Focus									
Spot Size in mm / Distance in mm		0	200	400	600	800	1000	**1200**	1500	2000	4000
Sprint 8 (L)-48	32-1800°F	15	15.8	17.3	18.8	19.5	21.8	**24.0**	33.8	50.0	115

ACCESSORIES

Single axis mounting bracket Model Sprint 8-SM

Dual axis mounting bracket Model Sprint 8-DM

Cooling jacket incl. air purge unit & bracket Model Sprint 8-JP

Air purge when cooling not required Model Sprint 8-P

USB CONFIGURATION

Sprint 8 rear showing Signal and Programming connections

CABLES AND ACCESSORIES

Part	Description	Part Number
U8 L-15F	15 foot prewired connector/ cable for Sprint U8 L	3310A11512
U8 L-48F	48 foot prewired connector/ cable for Sprint U8 L	3310A11514
U8U-5F	USB Programming cable 5Ft for Sprint	3310A14010
U8-JP	Cooled jacket for Sprint (inc. purge & bracket)	3310A23010
U8-P	Air purge with mounting plate for Sprint	3310A22010
U8-SM	Single-axis adjustable mount for Sprint	3310A21010
U8-DM	Dual-axis adjustable mount for Sprint	3310A21011

THERMOMETER MODELS

Thermometer Models	Focus	Aiming	Part Number
Sprint 8-4	4 inches	Manual	4408241301
Sprint 8 -12	12 inches	Manual	4408242301
Sprint 8 - 30	30 inches	Manual	4408243301
Sprint 8 - 48	48 inches	Manual	4408244301
Sprint 8 L-4	4 inches	Green LED	4408251302
Sprint 8 L-12	12 inches	Green LED	4408252302
Sprint 8 L-30	30 inches	Green LED	4408253302
Sprint 8 L-48	48 inches	Green LED	4408254302

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SPECIFICATIONS

	Sprint 8	Sprint 8-L (with Green LED)
Measuring range:	0-1800°F	32-1800°F
Spectral range:	8 to 14 µm	8 to 14 µm
Optics (see table inside):	4, 12, 30 and 48 inch focus factory set versions	
Internal Signal processing:	Digital	
Emissivity:	0.2 to 1.0, adjustable via USB interface	
Measurement Span:	Adjustable anywhere within range, minimum span 100 °F	
Response speed (95% energy):	50 ms (min.), adjustable 100 ms to 100 s via USB interface	
Uncertainty:	1% of meas. value specified in Kelvin	
Repeatability:	0.5 % of meas. value specified in Kelvin	
NETD:	0.05 °F	
Output:	Two-wire 4 to 20 mA temperature linear, into 600 Ohm load at 24V	
Interface:	USB interface (galvanically isolated)	
Configuration Software:	EasySpot (included in the delivery package)	
Aiming:	Manual	Green LED
Parameters:	Adjustable via USB interface and supplied EasySpot software: Emissivity; response time; Units °F / °C, measurement span	
Power supply:	24 V DC +/- 25%, ripple 500 mV max LED: 7 … 30 V DC, <200 mW	
Power consumption:	Max. 0.6 W (without aiming LED)	
Operating temperature:	0 to +160°F	
Storage temperature:	-4 to +160°F	
Housing:	Stainless Steel, IP 65 sealed	
Weight:	Approx. 1lb	
Dimensions:	Thermometer body length 5 inches, threaded 40mm x 1.5	

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