

## Explosion protection

Ex protection marking	ATEX: Ex db IIB T6 Gb IECEX: Ex db IIB+H2 T6 Gb CSA/CUS Class I Div 1 Group B, C + D CE <sup>2813</sup>
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## Technical data

Technology	automatic optical detection, absorbance or reflectance
Method	correlates with: ASTM D2386
Measuring range	-125 to 25 °C (-193 to 77 °F)
Repeatability	0.25 °C
Reproducibility	≤ ASTM
Measuring cycle	typical is less than 15 min
Product streams	jet fuel is normal, kero
– Electrical data	IP 65
Nominal voltage	100 to 120 V AC 1 phase; 50/60 Hz 200 to 240 V AC 1 phase; 50/60 Hz
Maximum power consumption	600 W
– Protection class	IP 65
– Ambient conditions	
Ambient temperature	0 to 30 °C (32 to 86 °F)
Ambient humidity	up to 90 %
<b>Sample</b>	
Quality	clean and filtered, less than 10 µm
Consumption	60 to 120 l/h; 2 bar (29 psi)
Pressure at inlet	2 to 24 bar (29 to 348 psi)
Temperature at inlet	-15 to 85 °C (5 to 185 °F)
<b>Utilities</b>	
– Instrument air Consumption	If air cooled cyro then 25 CFM
Vortec Purge	12 l/h
Pressure at inlet	24 bar (80 to 350 psi)
Quality	plant air
– Coolant	None required
Consumption	if liquid cooled cyro then 120 l/h (air cooled/no coolant)
Temperature	0 to 40 °C (32 to 104 °F)
Pressure at inlet	1 to 20 bar (min 2 bar different)
Quality	clean and filtered

## Signal outputs and inputs

Analog outputs	Freeze Point, cell temperature, optical signals
Digital outputs	F.P. alarm, analyzer fault, come read (programmable)

Digital inputs	customer alarm, remote standby, stream switch, validation (dry contact)
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## Electrical data of signal outputs and inputs

Analog outputs	1 standard 4-20 mA self powered and isolated, 1 optional
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Analog inputs	None required
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Digital outputs	up to 3 dry contacts 250 V AC, 3 A
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Digital inputs	up to 4 dry contact, customer alarm, remote standby, stream switch, validation
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## User interfaces

Display	7" color graphics
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Keyboard	5 button magnetic, no hot work permit required
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## Connections

Sample inlet	1/4" FNPT
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Sample outlet	1/4" FNPT
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## Weight and dimensions

Weight	approx. 340 kg (750 lbs)
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Dimensions (W x H x D)	approx. 940 x 1803 x 762 mm (37" x 71" x 30" in)
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## Optional interfaces

Analog outputs	optional (Sig0, Sig90, cell temperature)
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MODBUS	TCP IP/Serial RTU
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**Important notice** P-800LT is subject to continuous product improvement, specifications are preliminary and may be subject to change without notice. If your technical data do not comply with existing data, please contact us for technical clarification.

