

## 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>0518</sup>
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## Technical data

Technology	differential pressure sensing system
Method	compliant with: ASTM D7346 correlates with: ASTM D97
Measuring range	-100 to 25 °C (-148 to 77 °F)
Repeatability	0.25 °C
Reproducibility	compliant with: ASTM D7346 correlates with: ASTM D97
Measuring cycle	less than 20 min typical
<b>– Electrical data</b>	
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
<b>– Protection class</b>	
IP 65	
<b>– Ambient conditions</b>	
Ambient temperature	0 to 30 °C (32 to 86 °F)
Ambient humidity	up to 90 %
<b>Sample</b>	
Quality	clean and filtered, no free water
Consumption	60 to 120 l/h
Pressure at inlet	min of 2 bar (29 psi), up to 15 bar (217 psi)
Temperature at inlet	-15 °C to 85 °C (5 to 185 °F)
<b>Utilities</b>	
<b>– Instrument air Consumption</b>	
Vortec Purge	12 l/h
Pressure at inlet	24 bar (350 psi)
Quality	plant air
<b>– Coolant</b>	
Consumption	if liquid cooled cyro then 120 l/h (air cooled cyro unit/no coolant)
Temperature	0 to 40 °C (32 to 104 °F)
Pressure at inlet	1 to 20 bar (14 to 290 psi) (min 2 bar different)
Quality	clean and filtered

## Signal outputs and inputs

Analog outputs	Pour Point/No Flow Point, cell temperature, pressure signal
Digital outputs	come read, analyzer fault, Pour Point alarm, 3 A
Digital inputs	customer alarm, remote standby, stream switch, validation

## Electrical data of signal outputs and inputs

Analog outputs	1 standard 4-20 mA self powered and isolated, 1 optional
Digital outputs	up to 3 dry contacts 250 V AC, 3 A
Digital inputs	up to 4 dry contact, customer alarm, remote standby, stream switch, validation

## User interfaces

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

## Connections

Sample inlet	1/4" FNPT
Sample outlet	1/4" FNPT

## Weight and dimensions

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

## Optional interfaces

Analog outputs	optional (pressure, cell temperature)
MODBUS	TCP IP/Serial RTU

## Options

P-840	Peltier Cooling System
P-840LT	Cryo-Cooler System

**Important notice** P-840/P-840LT 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.