Product datasheet
ClampOn Control Station

CLAMPON®
ULTRASONIC INTELLIGENT SENSORS

1	General		Note
1.1	Model name	ClampOn Control Station	
1.2	Service description	Control station with light and reset for ClampOn DSP PIG Detector	
1.3	Model number	8150/5-0176-0236-150-3311	
1.4	Explosion protection principles employed	Increased safety, Ex e Flameproof enclosure, Ex d	1
1.5	Serial number	Unique for each unit	

2	Physical		
2.1	Dimensions (L × W × H)	242 mm × 182 mm × 150 mm [9.5 in × 7.2 in × 5.9 in]	
2.2	Enclosure material	Stainless steel 316L (enclosure: electro-polished, lid: brushed)	
2.3	Enclosure protective coating	None by default	
2.4	Weight	4 kg [8.8 lb]	
2.5	Equipment marking	Polyester certification label Stainless steel tag plate where applicable	
2.6	Cable entry configuration (clearance holes)	2 off ⌀25 fitted with brass Ex blanking element, and 1 off ⌀20 fitted with brass Ex breather drain	2
2.7	Cable gland	By client	2
2.8	Cable	By client	2
2.9	Indicator type	Single high intensity LED	
2.10	Reset type	SPST push-to-make (spring return), normally open (NO)	

3	Environmental	
3.1	Maximum installation altitude	2 000 meters [6 562 feet]
3.2	Ingress protection	IP66 tested to IEC 60529 and NEMA enclosure type 3, 4, 4x
3.3	Ambient temperature	See *Compliance* section
3.4	Storage and transportation temperature	Same as ambient temperature
3.5	Storage and transportation humidity	<95 % (non-condensing)

4	Operation	
4.1	Rated voltage range, U_{dc}	18 V to 28 V, U_{nom} = 24 V. See *Rated voltage range* on instrument product datasheet for details
4.2	Power consumption, at V_{nom}	0.3 W in addition to instrument power consumption
4.3	LED light viewing angle	180°
4.4	LED light colour	Red (coloured diffuser lens)
4.5	LED light operating life	100 000 hours
4.6	Push button service life	1 000 000 actuations

5	Signal	
5.1	Signal types	See *signal types* on instrument product datasheet for details

6	Installation	
6.1	Mounting	Mounting brackets in stainless steel. Entire assembly to be mounted in vertical (upright) position
6.2	Terminal block connection data	0.14 mm² to 2.5 mm² [AWG 26 to AWG 14] stranded conductor (with ferrule with plastic sleeve) cross section
6.3	PE connections	Internal: 2 off terminals for 4 mm² conductor External: M8 stainless steel bolt

7	Compliance		4
7.1	Hazardous area location approval	Zone 1, 2 for ATEX/IECEx installations and Zone 1, 2 or Division 2 for $_{c}UL_{us}$ (NEC/CEC) installations	
7.2	ATEX certificate	PTB 09 ATEX 1109	
7.3	ATEX marking	Ex II 2 G Ex db eb IIC T5…T4 Gb −55 °C ≤ T_{amb} ≤ +60 °C	
7.4	ATEX ambient temperature range	−55 °C ≤ T_{amb} ≤ +60 °C	3
7.5	IECEx certificate	IECEx PTB 09.0049	
7.6	IECEx marking	Ex db eb IIC T5…T4 Gb −55 °C ≤ T_{amb} ≤ +60 °C	
7.7	IECEx ambient temperature range	−55 °C ≤ T_{amb} ≤ +60 °C	3
7.8	$_{c}UL_{us}$ file number	E182378	
7.9	$_{c}UL_{us}$ marking	Class I Division 2 Groups A, B, C, D Class I Zone 1 AEx d e IIC T5 −55 °C ≤ T_{amb} ≤ +50 °C T4 −55 °C ≤ T_{amb} ≤ +60 °C	
7.10	$_{c}UL_{us}$ ambient temperature range	−55 °C ≤ T_{amb} ≤ +60 °C	3
7.11	CE marking in conformance with	2014/34/EU (ATEX) 2014/30/EU (EMC) 2011/65/EU (RoHS)	
7.12	EMC standards applied	IEC/EN 61439-1 and IEC/EN 61439-2	

Notes

1. The enclosure, actuator, lens, and terminals are Ex e, while the internal switch and LED are Ex d. The auxiliary components Ex breather drain and Ex blanking element are dual certified Ex d and Ex e.
2. Various solutions available. Cable gland and cable by client in accordance with local and/or national Ex installation regulations that apply.
3. The ambient temperature (T_{amb}) of −55 °C to +60 °C marked on the equipment refers to the temperature of the immediate surroundings, irrespective of any external source of heating, such as process temperature (T_{pipe}), or direct sunlight. If there is a risk the T_{amb} temperature ratings will exceed those listed in the Ex certificate, steps must be taken to mitigate this risk, such as installing a sunshade, moving the equipment to another location or similar.
4. The equipment may not be marked with all certificates at the same time.