## 14 General specification

Sensepoin	t XCD T	ransm	nitter										
Use	3-wire, 4-20mA, gas detector transmitter for use with directly installed flammable and toxic gas												
Electrical		Ι.		_									
		Input Voltage Range: Max Power Consumption:				16 to 32Vdc (24Vdc nominal) Max 5 Watts. at 24Vdc (see section 2 regarding maximum in ruch current)							
		Current output				4-20mA (Source or Sink)							
		≥0.0<1.0 mA				Fault (refer to table 5 section 12.3 for further details).							
		4.0 mA to 20.0 mA				Normal gas measurement							
		2.0 mA or 4.0 mA (17.4 mA)				Inhibit (during configuration/user settings)							
		22.0 mA				Maximum over range							
		i erminais				15 x screw terminals suitable for wire diameter $0.5$ mm <sup>2</sup> to $2.5$ mm <sup>2</sup> (20 MWC to 13 MWC)							
		Pola				2.5mm (20AWG to TSAWG). 3 x 5A@250VAC. Selectable normally open or normally closed							
			ay5			(switch) and energized/de-energized (programmable).							
		Com	nmunicat	tion		RS485, Modbus RTU							
Constructi	on												
Material Epoxy painted aluminium alloy or 316 Stainless Steel													
Weight	Aluminium alloy: 1.7kg, 316 Stainless Steel: 3.7kg												
Mounting		Pole	Pole or wall mounting										
Entries 2 x M20 (for ATEX/IECEx/AP Approval) or 2x3/4NPT (for UL Approval)													
Detectable	Gases	& Per	formand	ce (See	e notes belo	w)							
Gas	User Selectable Fu		ull Default	Steps	User Selectable	Default Cal	Response Time (T90)	Accuracy	Operating Temperature*		Default alarm points		
	Scale Ra	ange	Range		Cal Gas Range	Point	secs		Min	Max	A1	A2	
Oxygen	25.0% V	/V only	25.0%V/V	n/a	20.9%V/V (Fixed)	) 20.9%V/V	<30	<+/-0.5% Vol.	-20°C / -4°F	55°C / 131°F	19.5V/V▼	23.5V/V▲	
Hydrogen Sulfide	10.0 to 10	0.0ppm	50.0ppm	1.0ppm	30 to 70% of	25.0ppm	<50	<+/-1ppm	-20°C / -4°F	55°C / 131°F	10.0ppm▲	20.0ppm▲	
Hydrogen	1,000pp	m only	1,000ppm	n/a	selected full scale	500ppm	<65	<+/-8ppm <+/-25ppm	-20°C / -4°F	55°C / 131°F	200ppm	400ppm▲	
Nitrogen Dioxide	litrogen Dioxide 10.0 to 50.0 ppm		10.0 ppm	5.0 ppm	25 to 95 % of	5.0 ppm	<40	+/-3ppm or +/-20%	-20°C / -4°F	55°C / 131°F	5.0 ppm 🛦	10.0 ppm▲	
Flammable 1 to 8*	20 to 100	0%LEL	100%LEL	10%LEL	selected full scale range	50%LEL	<25	<+/-1.5%LEL	-20°C / -4°F	55°C / 131°F	20%LEL▲	40%LEL▲	
Infrared Sensors	20 to 100	0% I E I	100%151	10%   EI	30 to 70% of	50% I E I	<10	<+/15%151	20°C / 4°E	50°C / 122°E	20%1514	40%1514	
Propane	20 to 100	0%LEL	100%LEL	10%LEL	selected full scale range	50%LEL	<40	<+/-1.5%LEL	-20°C / -4°F	50°C / 122°F	20%LEL ▲	40%LEL▲	
Carbon Dioxide	2.00% Vo	l only	2.00% V/V	n/a		1.00% V/V	<40	<+/-2% Vol.	-20°C / -4°F	50°C / 122°F	0.40%V/V	0.80%V/V	
NUTES ▲ - Rising Alarm ▼ - Falling Alarm ▼ - Falling Alarm													
<ol> <li>measured using a sample humidity of 50%RH, applicable between 10 and 90% of full scale,</li> <li>measured using test units calibrated at 50% of full scale.</li> </ol>													
3. measured at 1000cc/min for Methane CAT, 500cc/min for O <sub>2</sub> , Toxic and Methane/Carbon Dioxide IR with calibration cup (S3KCAL).													
Response til	me (T90) Protectio	may	increase	when o	perating in lo	ower or h	igher tem	perature con alibrated and	nditions or linearised (	when gas i	s introdu	ced with	
exposed to o	ther HC t	hen no	n linear re	esponse	is expected. F	For lineari	sed opera	tion other that	an Methane	contact HA	for alterna	ate parts.	
Flammable C	CAT and N	Aethan	e IR is ca	librated	at the factory s	50%LEL	Methane (2	2.5%Vol). Th	is calibration	n enables 10	0% funct	ional test	
Methane the	unit has	to be ca	alibrated	at site u	sing target gas	s.Data rep	presents ty	pical values,	and system	conditionin	g may be	required	
to achieve st	ated resu	It. Con	tact HA fo	or details	$S_{\rm c}$	( 40°⊑ to	140°E) fe		over the l			with on	
accuracy of -	+/- 30% o	f applie	ed gas fro	ge 01 -4 m -20°0	C to -40°C (-4°	(-40 F to F to -40°l	= 149 F) 10 F) and +55	5°C to +65°C	(+131°F to	+149°F). Lo	ong term o	operation	
at this range may cause decline in sensor performance.													
	eywell An	arytics	ior any a	uuiliona	uata or detail	ə.							
Certificatio	n	CP	Ex d IIC		3836 18 2 0	000 04		Dending)					
China Korea			$KTL Ex d IIC T6 (-40^{\circ}C to +65^{\circ}C)$										
US		UL - Class I, Division 1, Groups B, C and D, Class I, Division 2, Groups B, C & D, Class II,									I,		
		Divis	Division, Groups E, F & G, Class II, Division 2, Groups F & G40°C to+65°C										
European	ATEX Ex II 2 GD Ex d IIC Gb T6(Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66												
Internationa	IEC Ex II 2 GD Ex d IIC Gb T6(Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66												
CE EN50270:2006 EN6100-6-4:2007													
Environme	ntal		、·										
IP Rating													
Operating Temperature		-40°C to +05°C/ -40°F to +149°F, (IR: -20°C to +50°C/ -4°F to +122°F). Note: The detector display may become illegible at temperatures below -40°C, but the detector continues its gas monitoring function.											
Operating		Continuous 20-90%RH (non condensing), Intermittent 10-99%RH (non condensina)											
Operating		90-110kPa											
Storage	-25°C to +65°C (-13°F to +149°F)												
Conditions		-		· · ·		,							