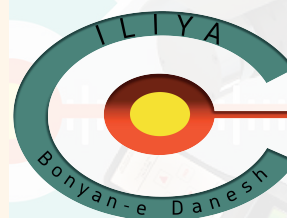


Comparison Chart of Electro-Optical Point Gas Detector System

ILIYA-P110

ILIYA-P110S

ILIYA-P110SD



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Simmtronics

OLDHAM 

 **MSA Dräger**

 **DET-TRONICS**
 **United Technologies**

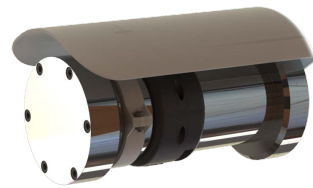


ILIYA-P110SD

ILIYA-P110S

ILIYA-P110

Comparison Chart of Electro-Optical Point Gas Detector System



	 PIRCEL	 IR400	 IR2100	 Searchpoint Optima plus	 ILIYA-P110SD	 ILIYA-P110S	 ILIYA-P110	 Ultima XIR Gas Monitor	 OLCT IR	 PIR 7000	 SmartS500	 GD10P	 PIR9400
Measured Gases	Methane, propane and other hydrocarbons and flammable gases	Methane, propane and other hydrocarbons and flammable gases	Methane, propane and other hydrocarbons and flammable gases	Methane, propane and other hydrocarbons and flammable gases	Methane and other hydrocarbons and Gases (Custom)	Methane and other hydrocarbons and Gases (Custom)	Methane and other hydrocarbons and Gases (Custom)	Methane, propane and other hydrocarbons and flammable gases and CO ₂	Methane, propane and other hydrocarbons and flammable gases	Methane, propane and other hydrocarbons and flammable gases	Methane, propane and other hydrocarbons and flammable gases	Methane, propane and other hydrocarbons and flammable gases	Methane, propane and other hydrocarbons and flammable gases
Measuring Range	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL	0 to 100%LEL
Measurement Accuracy	<±5%	50 % FSD< ± 3% LEL	50 % FSD< ± 3% LEL	50 % FSD< ± 2% LEL	±<2.5% FSD	±<2.5% FSD	±<2.5% FSD	<±5%	<±5%	Digital resolution 0.5 %LEL	± 2% LEL	<±5%	<±5%
Linearity	-	-	-	< ± %5FSD	±<%1 FSD	±<%1 FSD	±<%1 FSD	-	-	-	-	-	-
Response Time	T50= 4.8 sec T90= 7.6 sec	T50 <1.5sec T90<3sec	T50< 7 sec T90 < 10 sec	T 50 < 4.5 sec T 90< 6.5 sec	15s (T50) 25s (T90)	25s (T90)	10s (T50) 18s (T90)	T90 < 2 sec	T90 < 8 sec	T90 < 4 sec	T50 = 3 sec T90 = 8 sec	T50 =2.5 sec T90 = 6 sec	T50 = 5 sec T90 = 10 sec
Certificate	Ex de IIC T4-T5 Gb	Ex d, IIB+H2 T5 Gb,Ex tb IIIC T100°C Db	EExd, IIB+H2 T5	II 2GD EEx d IIC T5/T4	ATEX/CE: II 2G Ex db IIC T6 II 2D Ex tb IIIC T5 Db FM Approval: CL I. GR. A,B,C,D; CL II. GR. E, F,G;	ATEX/CE: II 2 GD Ex d IIC Gb T6(Ta -40°C to +85°C)	ATEX/CE: II 2 GD Ex d IIC T5 Gb	II 2G EEx d IIC T5	Ex d e ia IIC T4-II 2GD Ex tD A21 IP66 T135°C	II 2G Ex d IIC T6 / T4 Gb	ExII 2 G EEx d IIC	EExd I IC T6	Ex d IIB+H2 T4- T6 Gb
Operational Temperature	-55°C to +75°C	-40°C to +75°C	-40°C to +75°C	-40°C to +65°C	-20 C to +60 °C	-20 C to +60 °C	-30 °C to +65 °C	-40°C to +60°C	-50°C to +55°C	-40°C to +77°C	-40°C to +70°C	-40°C to +65°C	-40°C to +75°C
Humidity	0%-99%RH	10%-95%RH non-condensing	5%-100%RH non-condensing	0%-99% RH non-condensing	0%-99% RH non-condensing	0%-99% RH non-condensing	0%-99% RH non-condensing	0%-95% RH non-condensing	0%-99% RH non-condensing	0%-100%RH	0%-100%RH non condensing	100% RH	0%-99%RH
Power Supply	18 to 32V (24 Vdc nominal)	20 to 36V (24 Vdc nominal)	20 to 36V (24 Vdc nominal)	18 to 32V (24 Vdc nominal)	24V DC (nominal) Range 19-32V DC	24V DC (nominal) Range 19-32V DC	24V DC (nominal) Range 19-32V DC	10 to 30V	15 to 32V	13 to 32V	20 to 30V (24 Vdc nominal)	18 to 32V (24 Vdc nominal)	18 to 30V (24 Vdc nominal)
Power	10 W max	4.8 W	9.5 W	< 4.5 W	2 (W)	2 (W) - Max	4.5 (W) - Max	5 W	2.5 W	5.6 W (typical)	3 W	~ 3.5 W	7 W max
Time to Stabilization	1 hr	-	-	1 hr	30 min	30 min	30 min	-	-	-	30 min	30 min	-
Analog Output	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA
Digital Output	HART, Modbus	RS-485, Modbus RTU, HART	Modbus	RS-485	RS-485	RS-485	RS-485	HART and Modbus	-	HART	RS-485	HART	-
Environmental Protection (IP)	IP66/IP67	IP66	IP66	IP66/IP67	IP66	IP66, IP67	IP66, IP67	IP 66	IP66 / IP67	IP66/IP67	-	IP66/IP67	IP66
Housing Material	Stainless Steel (316/CF8M Cast)	Marine Aluminum or Stainless Steel	Aluminum or Stainless Steel	316 stainless steel	Aluminum	Aluminum	Aluminum or Stainless Steel 316L	316 stainless steel	316L Stainless Steel	Stainless steel SS 316L	Light alloy	Stainless steel (316)	Aluminum Stainless Steel (316)
Weight	4.8 kg	Al: 1.35 kg SS: 2.7 kg	Al: 1.35 kg SS: 2.7 kg	1.6 Kg	1.5 Kg	1.2 Kg	Al: 1.8 Kg SS: 2.6 Kg	2.7 kg	1.6 kg	2.2 kg (without accessories)	1.5 kg	~ 2.9 kg	AL: 0.95 kg SS: 1.8 kg