

APPLICATION DATA SHEET

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OLIVER IGD

MKIII ATEX 'Pellistor' Flammable Gas Detector



- Bridge Circuit 3 Wire
- Compact Size
- Exd Certified
- **ATEX Certified**
- Ingress Protection IP66
- Stainless Steel Construction
- High Power 360mA
- Poison Resistant Sensor
- Manufactured by Oliver IGD

Better known as the UK's oldest manufacturer of gas monitoring and gas analysis systems, *Oliver-IGD* have produced the MKIII-DCP **flammable** gas measuring sensor for over 30 years.

The MKIII-DCP has the reputation for being the most poison proof pellistor available, with many clients experiencing over 10 years satisfactory service.

Basic Specification

Specification	
Bridge Supply	360mA±5mA
Electrical Outputs	3 Wire Bridge
Temperature	-30°C to +50°C
Humidity	15 to 90% RH non-condensing
Ingress Protection	IP66
Housing Material	Stainless Steel 316 S16
Explosion Protection	Flameproof
Approval Code	EEx d IIC T6
Dimensions (mm)	33 Diameter x 52 Length
Mounting Thread	M20 x 1.75
Weight	210 grams



Pellistor Sensor Production

EEx d IIC T6

CE 0518

Ex II 2 D G

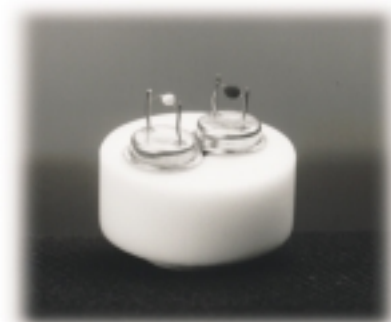
Sira 02ATEX1270X

MKIII & Type B

SENSORS & ACCESSORIES

MKIII-DCP Pellistor Flammable Gas Sensor

Sensor Data	
Measuring Range	0 to 100% LEL
Resolution	2% FSD
Warm Up Time	<30 Minutes
Response Time T90	<10 Seconds
Repeatability	± 0.1% LEL
Long Term Drift	± 0.05% LEL/Month
Power	<1.1 Watt
Max Air Velocity Without Additional Protection	6M/s
Weight	210gms
Linearity	Sensibly linear up to 3% Vol Methane



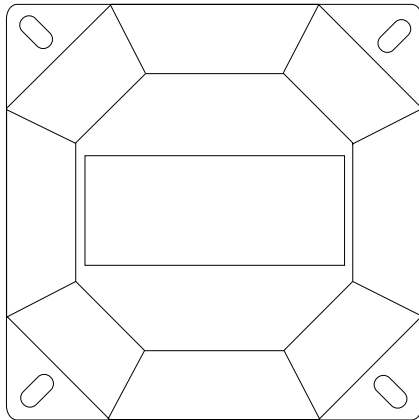
Correction Factors & Calibration Constants

Gas / Vapour	Relative Sensitivity	With 1% Methane In Air Adjust Calibration to Display (in LEL)
Methane	1.00	20
Propane	0.63	35
n-Butane	0.59	35
n-Pentane	0.53	40
n-Hexane	0.42	50
N-Heptane	0.42	50
n-Octane	0.39	55
Hydrogen	0.69	30
Methanol	0.70	30
Ethanol	0.48	40
Iso Propyl Alcohol	0.38	55
Acetone	0.41	50
Methyl Ethyl Ketone	0.41	50
Benzene	0.39	55
Toluene	0.34	60
Di-ethyl Ether	0.52	10
Cyclohexane	0.43	50
Ammonia	1.24	15

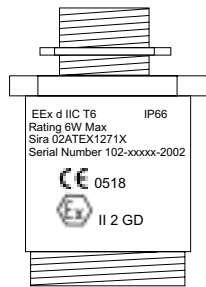
Oliver IGD Ltd have a large Library of calibration factors for different flammable target gases relating to the MKIII and Type B Detectors. If the target gas of interest is not indicated in the table, contact Oliver IGD Ltd for further information

MKIII & Type B

SENSORS & ACCESSORIES

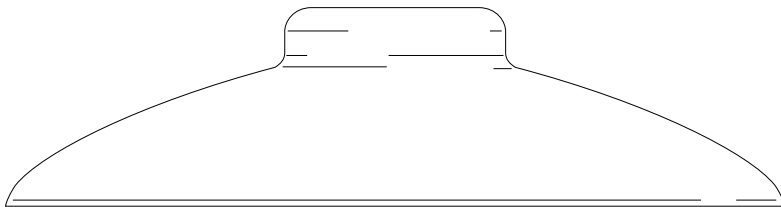


Standard Junction Box P/N 5045801

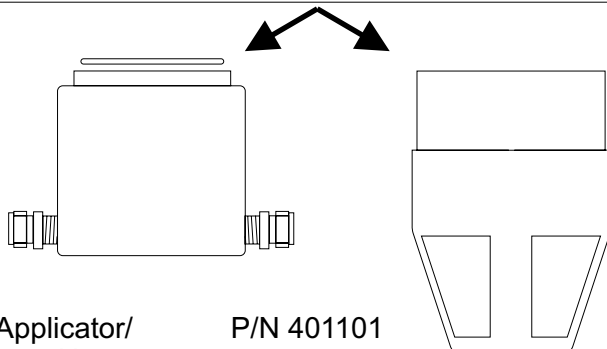


MKIII Flammable Gas Detector P/N 501001

Type B Flammable Gas Detector P/N 501051



Collector Cone P/N 401061



Weather Protection Assembly
And Test Gas Applicator P/N 401451

Test Gas Applicator/
Flow Adaptor. Note
Fittings For 1/4" Tube

P/N 401101