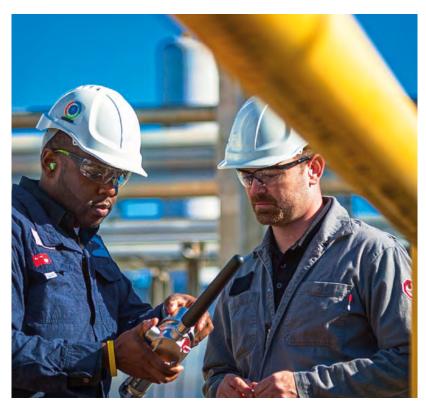


KEEPING YOUR CREW SAFE JUST GOT EASIER.

The GD10P infrared gas detector is the benchmark for combustible gas detection. It has set the standard for gas detectors in the areas of safety, stability and low maintenance. GD10P comes with a 5 year warranty.

The GD10P differs from all other infrared gas detectors because it uses a solid-state infrared source. The optical block is so robust that it comes with a 15 year warranty and provides an unparalleled detector stability and an unmatched service life.

The GD10P also features heated optics to prevent condensation, a HART interface, fail-safe operation and global approvals.



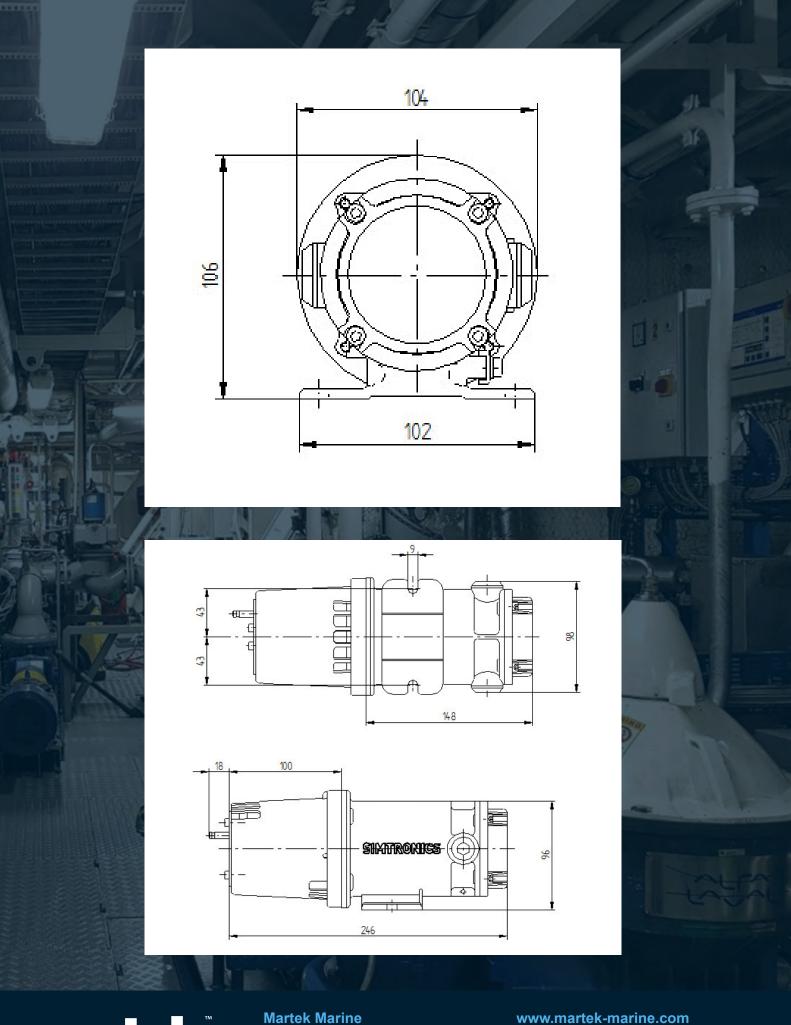
GD10P Features

- 5 years warranty
- 15 years warranty semiconductor IR source (Simtronics patent)
- Zero maintenance
- Response Time T90<1.0s
- SIL 2 certified (SIL3 software)
- Early dirty optics warning for improved preventative maintenance

TECHNICAL SPECIFICATIONS



GENERAL	
Technology	IR-absorption, dual wavelength, dual path
IR-Source	Solid state IR source
Gases Detected	Hydrocarbons (for CO ₂ see separate data sheet)
Self-Test	Continuous
Calibration	Factory set, no field recalibration
Configuration	HART protocol
PERFORMANCE	
Accuracy	
Refers to -20°c to	±3% FS between 0-50 % reading ±5% FS between 50-100 % reading
+45°c	
	Methane Other gases
Response Time	T20 = 0.2 Sec T20 < 1.0 Sec T50 = 0.4 Sec T50 < 2.5 Sec
	T90 = 1.0 Sec T90 < 6.0 Sec
OUTPUT SIGNAL	
Standard	Current source 4 – 20 mA, max. Load
	Impedance 500 ohm
Option	Current sink 4 – 20 mA
HART®	Maintenance and configuration
Detector Faults	- Early clean optics - Pre warning (2 mA) - Dirty optics - Dirt accumulation (1 mA)
(HART configurable)	- Dirty optics - Dirt accumulation (1 mA) - Detector failure - Internal fault (0 mA)
ELECTRICAL	
Power Supply	24V DC (18 - 32V DC)
Power Consumption	Approx. 3.5 W
Connection	3-wire shielded cable (0.5-2.5mm²)
Cable Entry	M20 Ex e cable gland
TEMPERATURE RANGE	
Storage	-40°C to +70°C (-40°F to +158°F)
Operating	-40°C to +60°C (-40°F to +140°F)
Humidity (Operation)	0- 100% RH
EXPLOSION PROOF HO	
Ingress Protection	IP66/IP67
Housing material	Stainless Steel SIS2343 (ASTM316)
Weight	Approx. 2.9 Kg (6.4 Lbs) 264 X 104 x 106 (mm)
Dimensions (LxWxH)	10.4 X 4.1 X 4.2 (Inches)
WARRANTY	
	5 years full warranty on a complete instrument
Warranty	15 years warranty on the infrared sources
APPROVALS	
ATEX / IECEX / IN-	II 2 G / Ex db eb IIC T6 Gb
METRO	C22.2 No 152-M984 and ANSI 12.13.01-2000
CSA	Ex d e IIC T6 (for Canada only)
	Class I, Division 2, Groups A, B, C and D (USA and Canada)
Various	SIL 2 certified (software is SIL 3), ABS, MED
VERSIONS	
Gas	Ranges
Methane	0-100%LEL, 0-100%vol
Propane	0-100%LEL, 0-100%Vol
	ole, please contact your dealer.
FRONT COVER Paguired select one	
Required, select one Weather protection	Supplied as standard
Sample flow housing	For sampling systems and bump test
Duct mount kit	For duct monitoring
ACCESSORIES	
Mosquito net	Extra insect protection
Sun shade	Shielding for extreme solar radiation exposure or snow deposit
231.011.00	1 O





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