

# General specification



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<b>Output</b>	
Measuring range	4 to 20mA sink or source, (Default current source)
Inhibit	1-3mA (Default 2mA)
Warning	0-4mA (Default 4mA)
Fault	0mA
Over range	20-21.5mA (Default 21mA)
<b>Digital output</b>	Optional Modbus RS485 multidrop output using DVC/DX100(M)
<b>Weight</b>	1.6kg
<b>Accuracy</b>	
Optima PLUS (HC)	Baseline $<\pm 1\%$ LEL, 50% FSD $<\pm 2\%$ LEL
Optima PLUS (ET)	Baseline $<\pm 2\%$ LEL, 50% FSD $<\pm 3\%$ LEL
<b>Repeatability</b>	$<\pm 2\%$ LEL at LEL 50% FSD
<b>Linearity</b>	$<5\%$ FSD
<b>Response time</b>	$T_{50} <4.5$ seconds, $T_{90} <6.5$ seconds (for methane, including weather protection)
<b>Operational and certified</b>	$-40^{\circ}\text{C}$ to $+65^{\circ}\text{C}$ temperature range
<b>Drift with time and over temperature range</b>	$-40^{\circ}\text{C}$ to $+65^{\circ}\text{C}$ Baseline $<\pm 2\%$ LEL 50% FSD $<\pm 4\%$ LEL
<b>Drift with pressure</b>	0.1% (of reading) per mbar
<b>Power supply</b>	18-32V (24V nom) DC, $<4.5\text{W}$ max
<b>Environmental protection</b>	IP66/67
<b>Diagnostics</b> (and re-calibration)	Via certified Hand Held Interrogator
<b>Safety approvals</b>	CENELEC (BASEEFA), SAA $\text{II 2G EEx d IIC T5}$ (Tamb $-40^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ ) $\text{T4}$ (Tamb $-40^{\circ}\text{C}$ to $+65^{\circ}\text{C}$ ) UL/CSA Class 1, Div 1, Groups B, C + D ( $-40^{\circ}\text{C}$ to $+65^{\circ}\text{C}$ ) FTZU, BKI, GOSST
<b>Performance approvals</b>	DMT and FM Applied for
<b>EMC compliance</b>	EN 50081-1: 1992 EN 50082-2: 1995
<b>Calibrations available</b>	Calibrations for over 100 gases and vapors available. For other gases and vapors contact your local distributor.
<b>Standard calibrations</b>	Methane 100%LEL, Ethane 100%LEL, Propane 100%LEL, Butane 100%LEL, Ethylene/Ethene 100%LEL <sup>1</sup> , Methane 100%UEG (DMT Approved), Ethane 100%UEG (DMT Approved), Propane 100%UEG (DMT Approved), Butane 100%UEG (DMT Approved), Ethylene 100%UEG (DMT Approved) <sup>1</sup> .
<b>Special calibrations</b>	Hexamethyldisiloxane 100%LEL, Butan-1-ol 100%LEL, Butanol-1 100%UEG, N-Butylacetate 100%LEL, N-Butylacetat 100%UEG, Butanone (Mek) 100%LEL, Butanon 100%UEG, Cyclohexane 100%LEL, Cyclohexan 100%UEG, Cyclohexanone 100%LEL, Cyclohexanon 100%UEG, Ethanol 100%LEL, Aethanol 100%UEG, Ethylacetate 100%LEL, Ethylacetat 100%UEG, N-Heptane 100%LEL, N-Heptan 100%UEG, N-Hexane 100%LEL, N-Hexan 100%UEG, Propan-2-ol 100%LEL, Propanol-2 100%UEG, N-Propylacetate 100%LEL, Propylacetat-N 100%UEG, Methanol 100%LEL, Methanol 100%UEG, Benzin 60/95 (Mixture) 100%UEG, Di-Ethylether 100%LEL, Ethylether 100%UEG, Methane 100%V/V, N-Pentane 100%LEL, AVTUR/JP8 (Aviation Fuel Mixture) 100%LEL, Di-Methyl Ether 100%LEL, Decamethyltetrasiloxane 100%LEL, N-Octane 100%LEL, N-Octane 100%UEG, Octamethyltetrasiloxane 100%LEL, Di-Methyl Formamide 100%LEL, JP1 (Aviation Fuel Mixture) 100%LEL, Methyl Iso Butyl Ketone 100%LEL, I-Butane 100%LEL, I-Butane 100% UEG, Pent-1-Ene 100%LEL, I-Propyl Acetate 100%LEL, 1-Methoxy-2-Propanol 100%LEL, 3-Ethoxy-1-Propanol 100%LEL, Oct-1-Ene 100%LEL, Hex-1-Ene 100%LEL, Chloroethane 100%LEL, N-Propanol 100%LEL, Methane 10%V/V, Propene 5%V/V, 1-Methoxy-2-Propanol 100%, 3-Ethoxy-1-Propanol 100%UEG, Benzin 80/110 (Mixture) 100%UEG, Propane 50%UEG, Di-Methyl Ether 100%UEG, Propane 40%V/V, Propylene Glycol Methyl Ether Acetate 100%LEL, Propane 60%V/V, Propane 20,000ppm, Butane 18,000ppm, Methyl I Amyl Ketone 100%UEG, Band A High IR 100%LEL, Band B High IR 100%LEL, Propylen 100%UEG, Propan (DMT Approved) 5,000ppm
<b>Custom Calibrations</b>	Propylene 100%LEL, Acetone 100% LEL, Aceton 100%UEG, Toluene 100%LEL, Toluol 100%UEG, O-Xylene 100%LEL, O-Xylol 100%UEG, P-Xylene 100%LEL, P-Xylol 100%UEG, Ethene 10%V/V, Propane 10%V/V, 1,2-Dichloroethane 100%UEG, Band C Medium IR 100%LEL, Band D Low IR 100%LEL, Benzene 100%LEL <sup>1</sup> , Styrene 100%LEL <sup>1</sup> , 1,3 Butadiene 100%LEL <sup>1</sup> . Note: <sup>1</sup> Only available on Ethylene version EXOPTiMaPLUS