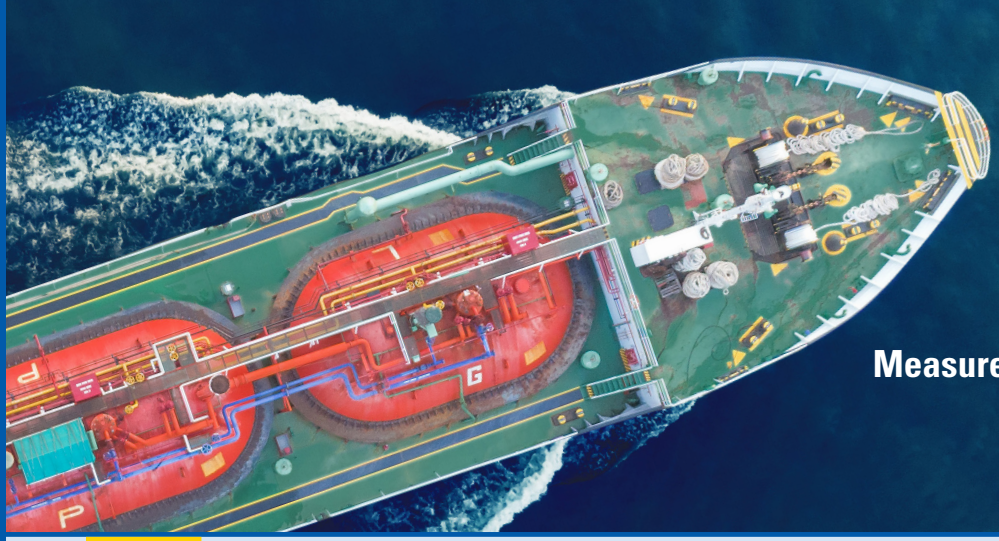

ADOS®
est. 1900

Measurement and control technology

GAS TRANSMITTER

GTR 210 MED

Ex SIL1

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ID: 01 100 71011

GAS TRANSMITTER GTR 210 MED

Technical specifications – for the six sensors

Type	**GTR 210 EX MED VQ**	**GTR 210 EX MED IR**	**GTR 210 EX MED TOX**	**GTR 210 EX MED IR**	**GTR 210 EX MED TOX**	**GTR 210 MED IR**
Measurement method	**Heat effect**	**Infrared**	**Electrochemical**	**Infrared**	**Electrochemical**	**Infrared**
Measuring range	**0–100% LEL** **Alkanes: methane ... hexane, LNG, hydrogen, ethylene**	**0–100% LEL** **methane, propane, LNG**	**0–25 vol%** **O_2**	**0-5000 ppm** **CO_2**	**0-50 ppm** **H_2S**	**0–5000 ppm** **R134a,** **various refrigerants**
Typical application	Explosion protection on ships with LNG, LPG and LFL drives, LNG, CNG, oil and chemical tankers, LNG terminals and LPG deposits	Explosion protection on ships with LNG, LPG and LFL drives, LNG, CNG, oil and chemical tankers, LNG terminals and LPG deposits	Detection of lack of oxygen, excess oxygen and inerting	Detection of harmful gases and vapours	Detection of harmful gases and vapours	Leakage- monitoring of refrigerating units
Supply voltage	24V DC +10% -25%, 4W	24V DC +10% -25%, 4W	24V DC +10% -25%, 4W	24V DC +10% -25%, 4W	24V DC +10% -25%, 4W	24V DC +10% -25%, 4W
Output	3-wire technology 4… 20 mA	3-wire technology 4… 20 mA	3-wire technology 4… 20 mA	3-wire technology 4… 20 mA	3-wire technology 4… 20 mA	3-wire technology 4… 20 mA
Degree of protection	IP66/67 Passivated housing, sensor holder made of acid-proof stainless steel	IP66/67 Passivated housing, sensor holder made of acid-proof stainless steel	IP66/67 Passivated housing, sensor holder made of acid-proof stainless steel	IP66/67 Passivated housing, sensor holder made of acid-proof stainless steel	IP66/67 Passivated housing, sensor holder made of acid-proof stainless steel	IP66/67 Passivated housing, sensor holder made of acid-proof stainless steel
Temperature	-25°C…+60°C	-25°C…+60°C	-25°C…+60°C	-25°C…+60°C	-25°C…+45°C	-25°C…+60°C
Measurement error	< 5% from measuring range	< 5% from measuring range	< 2% from measuring range	< 10% from measuring range	< 10% from measuring range	< 10% from measuring range
Response time t_{90}	Methane < 40 seconds	Methane < 60 seconds	< 30 seconds	< 80 seconds	< 220 seconds	< 200 seconds
Influence of pressure when changing by 200 hPa	< 1% from measuring range	< 1% from measuring range	< 1% from measuring range	< 1% from measuring range	< 1% from measuring range	< 1% from measuring range
Service life	About 5 years	About 5 years	About 5 years	About 5 years	1 year	About 5 years
ATEX / IECEX Device group Type of protection ATEX certificate IECEX certificate	 II 2G Ex db e ia mb IIC T4 Gb DEKRA11ATEX0257X IECEx DEK11.0090X	 II 2G Ex db e ia mb IIC T4 Gb DEKRA11ATEX0257X IECEx DEK11.0090X	 II 2G Ex db e ia mb IIC T4 Gb DEKRA11ATEX0257X IECEx DEK11.0090X	 II 2G Ex db e ia mb IIC T4 Gb DEKRA11ATEX0257X IECEx DEK11.0090X	 II 2G Ex db e ia mb IIC T4 Gb DEKRA11ATEX0257X IECEx DEK11.0090X	
Metrological approval certificate	EN60079-29-1 BVS12ATEXG001X	EN60079-29-1 BVS12ATEXG001X	EN50104 BVS12ATEXG001X	n/a	n/a	n/a
Safety level	EN50271 SIL1	EN50271 SIL1	EN50271 SIL1	EN50271 SIL1	n/a	n/a
MED approval Certificate number Labelling Use	MED Item 3.54 SOLAS 74 u.a. IEC60092, IEC60533 MEDB00006EV Wheelmark open deck, under deck	MED Item 3.54 SOLAS 74 u.a. IEC60092-504, IEC60533 MEDB00006EV Wheelmark open deck, under deck	MED Item 3.54 SOLAS 74 u.a. IEC60092-504, IEC60533 MEDB00006EV Wheelmark open deck, under deck	n/a	n/a	n/a
Classification certificate Certificate number	DNVGL-CG-0339 TAA00002JG	DNVGL-CG-0339 TAA00002JG	DNVGL-CG-0339 TAA00002JG	DNVGL-CG-0339 TAA00002JG	DNVGL-CG-0339 TAA00002JG	DNVGL-CG-0339 TAA00002JG
Classification: Temperature, Humidity, Vibration, EMC, Enclosure	Class: D, B, A, B, C	Class: D, B, A, B, C	Class: D, B, A, B, C	Class: D, B, A, B, C	Class: C, B, A, B, C	Class: D, B, A, B, C
Labelling	EN60079-29-1 CE Ex II 2G	EN60079-29-1 CE Ex II 2G	EN50104 CE Ex II 2G	CE Ex II 2G	CE Ex II 2G	CE
Dimension	150 x 175 x 105 mm	150 x 175 x 105 mm	150 x 175 x 105 mm	150 x 175 x 105 mm	150 x 175 x 105 mm	150 x 175 x 105 mm
Weight	2.3 kg	2.3 kg	2.3 kg	2.3 kg	2.3 kg	2.3 kg

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