



GAS TRANSMITTER

GTR 210 MED



ADOS GmbH

Tel: +49 (0) 2 41 / 97 69 - 0

Instrumentation and Control

Fax: +49 (0) 2 41 / 97 69 - 16

P.O. Box 500 444 · 52088 Aachen · FRG

info@ados.de

Trierer Strasse 23 – 25 · 52078 Aachen · FRG

www.ados.de



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 ₂ S	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	II 2G	II 2G	II 2G	II 2G	II 2G	
Type of protection	Ex db e ia mb IIC T4 Gb	Ex db e ia mb IIC T4 Gb	Ex db e ia mb IIC T4 Gb	Ex db e ia mb IIC T4 Gb	Ex db e ia mb IIC T4 Gb	
ATEX certificate	DEKRA11ATEX0257X	DEKRA11ATEX0257X	DEKRA11ATEX0257X	DEKRA11ATEX0257X	DEKRA11ATEX0257X	
IECEX certificate	IECEX DEK11.0090X	IECEX DEK11.0090X	IECEX DEK11.0090X	IECEX DEK11.0090X	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	MED Item 3.54 SOLAS 74 u.a. IEC60092, IEC60533	MED Item 3.54 SOLAS 74 u.a. IEC60092-504, IEC60533	MED Item 3.54 SOLAS 74 u.a. IEC60092-504, IEC60533	n/a	n/a	n/a
Certificate number	MEDB00006EV	MEDB00006EV	MEDB00006EV			
Labelling Use	Wheelmark open deck, under deck	Wheelmark open deck, under deck	Wheelmark open deck, under deck			
Classification certificate	DNVGL-CG-0339	DNVGL-CG-0339	DNVGL-CG-0339	DNVGL-CG-0339	DNVGL-CG-0339	DNVGL-CG-0339
Certificate number	TAA00002JG	TAA00002JG	TAA00002JG	TAA00002JG	TAA00002JG	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