

Measuring Module Type MK-OXY045X for:

Stratos Pro Type A2..X...

Stratos Multi Type E401X...

IECEX, ATEX Control drawing 212.002-100 page 1
 cFMus Control drawing 212.002-300

IECEX, ATEX Control drawing 212.502-100 page 1
 cFMus Control drawing 212.502-100 page 2

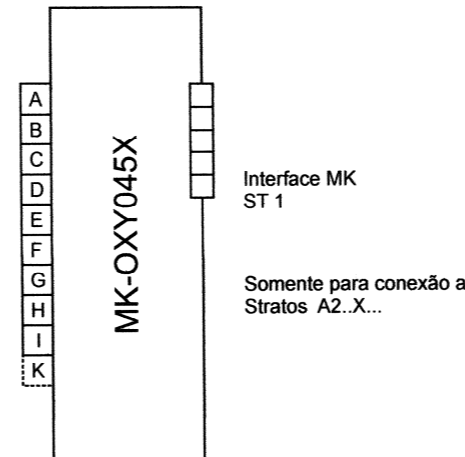
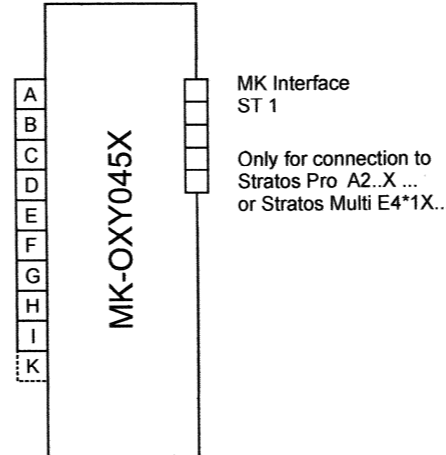
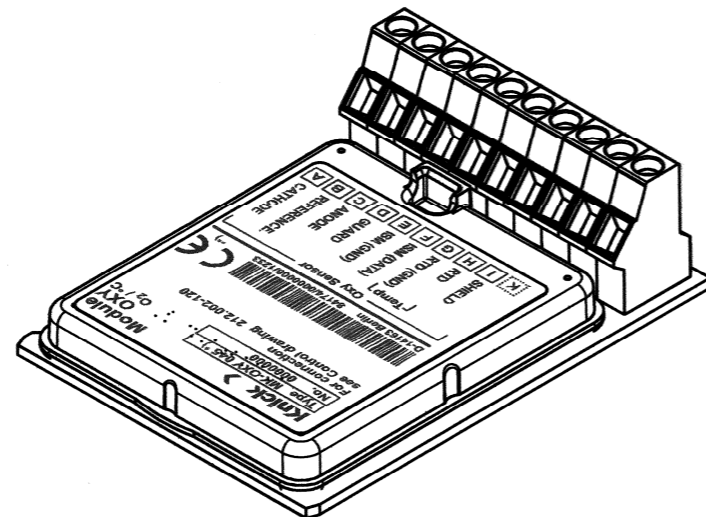
MK interface	In type of protection intrinsic safety, only for connection to Stratos® A2..X..., E401X...									
	Uo, Voc (V)	Io, Isc (mA)	Po (mW)	Ex ia IIC, IIIC CI I, Zone 0, Grp IIC CI I, Div 1, Grp A & B	Ex ia IIB, IIIB CI I, Zone 0, Grp IIB CI I, Div 1, Grp C & E	Ex ia IIA, IIIA CI I, Zone 0, Grp IIA CI I, Div 1, Grp D, F & G	Co, Ca (nF)	Lo, La (mH)	Co, Ca (µF)	Lo, La (mH)
OXY Measuring Loop (Terminals A, B, C, D, I)	15	8.2	20.5	580	500	3.55	1000	14	1000	Linear characteristic
Temperature Measuring Loop (Terminals G, H)	10	1.6	4	2.88 µF	1000	19.8	1000	99	1000	Linear characteristic
OXY/Temperature Measuring Loop (Terminals A, B, C, D, G, H, I,)	15	9.7	25	481	300	3.46	1000	13.9	1000	Linear characteristic
ISM Measuring Loop (Terminals E, F)	15	10.6	26.6	580	300	3.55	1000	14	1000	Linear characteristic
OXY/ISM/Temperature Measuring Loop (Terminals A, B, C, D, E, F, G, H, I,)				Ex ic IIC, IIIC	Ex ic IIB, IIIB	Ex ic IIA, IIIA				
				CI I, Div 2, Grp A, B, C & D CI II, III, Div 2, Grp F & G CI I, Zone 2, Grp IIC						
	3	6	18	1000 µF	1000	1000	1000	1000	1000	Linear characteristic

The measuring circuits are galvanically connected
 Do not mix different Types of Protection

Módulo de Medição Tipo MK-OXY045X para Stratos® Tipo A2..X...
 Desenho de controle INMETRO 212.002-100 page 3

Interface MK	Em tipo de proteção: „segurança intrínseca“, somente para conexão a Stratos® A2..X...									
	Uo, Voc (V)	Io, Isc (mA)	Po (mW)	Ex ia IIC, IIIC CI I, Zone 0, Grp IIC CI I, Div 1, Grp A & B	Ex ia IIB, IIIB CI I, Zone 0, Grp IIB CI I, Div 1, Grp C & E	Ex ia IIA, IIIA CI I, Zone 0, Grp IIA CI I, Div 1, Grp D, F & G	Co, Ca (nF)	Lo, La (mH)	Co, Ca (µF)	Lo, La (mH)
Malha de Medição de Oxigênio (Terminais A, B, C, D, I)	15	8.2	20.5	580	500	3.55	1000	14	1000	Característica linear
Malha de Medição de Temperatura (Terminais G, H)	10	1.6	4	2.88 µF	1000	19.8	1000	99	1000	Característica linear
Malha de Medição de Oxigênio/Temperatura (Terminais A, B, C, D, G, H, I,)	15	9.7	25	481	300	3.46	1000	13.9	1000	Característica linear
Malha de Medição de ISM (Terminais E, F)	15	10.6	26.6	580	300	3.55	1000	14	1000	Característica linear
Malha de Medição de Oxigênio/ISM/Temperatura (Terminais A, B, C, D, E, F, G, H, I,)				Ex ic IIC, IIIC	Ex ic IIB, IIIB	Ex ic IIA, IIIA				
				CI I, Div 2, Grp A, B, C & D CI II, III, Div 2, Grp F & G CI I, Zone 2, Grp IIC						
	3	6	18	1000 µF	1000	1000	1000	1000	1000	Característica linear

Os circuitos de medição são conectados galvanicamente
 Não misture diferentes tipos de proteção.



WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY
 WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR THE SUITABILITY FOR DIV 2 / ZONE 2
 WARNING - DO NOT SEPARATE MODULE WHEN ENERGIZED

Notes:

IECEX, ATEX, cFMus

- When installed in Stratos the Intrinsically Safe Equipment connecting to A, B, C, D, E, F, G, H, I must be IECEX or ATEX or NRTL Approved or be a simple Apparatus.
- Simple Apparatus is defined as a device that does not generate more than 1.5 V, 0.1 A, or 25 mW.

cFMus

- The Intrinsic Safety Entity concept allows the interconnection of FM Approved intrinsically safe devices with entity parameters not specifically examined in combination as a systems when:
 U_o or V_{oc} or $V_t \leq V_{max}$, I_o or I_{sc} or $I_t \leq I_{max}$, $P_o \leq P_i$, C_a or $C_o \geq \sum C_i + \sum C_{cable}$
 For inductance use either L_a or $L_o \geq \sum L_i + \sum L_{cable}$ or $L_e/R_e \leq (L_a/R_a$ or $L_o/R_o)$ and $L_i/R_i \leq (L_a/R_a$ or $L_o/R_o)$
- Installation should be in accordance with ANSI/ISA RP12.06.01, "Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations" and the National Electrical Code® (ANSI/NFPA 70), or with the Canadian Electrical Code for Hazardous Location as applicable.
- No revisions to drawing without prior FM Approvals authorisation.

AVISO A SUBSTITUIÇÃO DE COMPONENTES PODE PREJUDICAR A SEGURANÇA INTRÍNSECA
 AVISO A SUBSTITUIÇÃO DE COMPONENTES PODE PREJUDICAR A EFICIÊNCIA EM ZONE 2
 AVISO NÃO SEPARAR O MÓDULO QUANDO ENERGIZADO

Notas:

INMETRO

- Quando instalado em Stratos® Tipo A2..X...: O equipamento intrinsecamente seguro conectado a A, B, C, D, E, F, G, H, I precisa ter aprovação IECEX ou ATEX ou FM ou CSA ou INMETRO ou ser um Aparelho simples.
- Definição de Aparelho Simples: instrumento que não gera mais que 1,5 V, 0,1 A ou 25 mW.

				Zul. Abweichungen für Maße ohne Toleranzangabe		Maßstab	
						Halbzeug	
				Datum		Name	
7	Texts	19.03.21	dam	Bearbeitet	28.05.2008	Benennung MK-OXY045X	
6	page1 „X“, page2 „B“	13.01.16	dam	Geprüft	<i>M.B. Rort</i>	Control drawing	
5	Texts	21.09.15	dam	Freigabe	<i>M.B. Rort</i>	Zeichnungsnummer	
4	Texts	04.09.12	dam	Schutzvermerk nach ISO16016 beachten.			212.002-120
3	INMETRO Texte	06.04.11	dam				
2	Texts	25.08.09	dam				Blatt
1	FM u. CSA	23.01.09	dam				1
Nr.	Änderungen	Datum	Bearb.	Freigabe	Elektronische Messgeräte GmbH & Co. KG		



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