

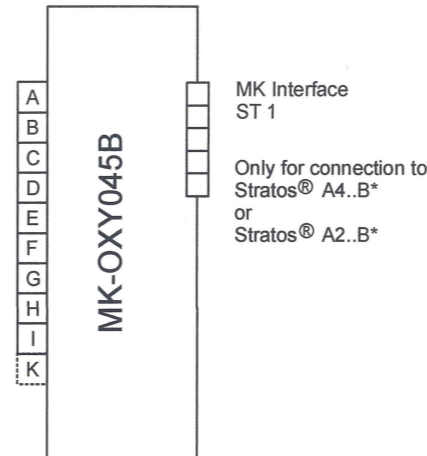
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Measuring Module Type MK-OXY045B for Stratos® Type A4..B*, A2..B*

IECEX, ATEX control drawing 212.002-100
 FM control drawing 212.002-300
 CSA control drawing 212.002-330

MK interface		In type of protection intrinsic safety or non-sparking, only for connection to Stratos® A4..B*, A2..B*									
OXY/ISM/Temperature Measuring Loop (Terminals A, B, C, D, E, F, G, H, I,)		Ex ic IIC, IIIC Ex nA IIC			Ex ic IIB, IIIB Ex nA IIB			Ex ic IIA, IIIA Ex nA IIA			
		CI I, Div 2, Grp A, B, C & D CI II, III, Div 2, Grp F & G CI I, Zone 2, Grp IIC									
Uo, Voc (V)	Io, Isc (mA)	Po (mW)	Co, Ca (µF)	Lo, La (mH)	Co, Ca (µF)	Lo, La (mH)	Co, Ca (µF)	Lo, La (mH)	Co, Ca (µF)	Lo, La (mH)	Linear characteristic
3	6	18	1000	1000	1000	1000	1000	1000	1000	1000	

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



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, FM, CSA

- When installed in Stratos® Type A4..B, A2..B: Intrinsically Safe Equipment connecting to A, B, C, D, E, F, G, H, I must be IECEX or ATEX or FM or CSA Approved or be a simple Apparatus.
- Simple Apparatus is defined as a device that does not generates more than 1.5 V, 0.1 A, or 25 mW.

FM

- 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 $L_e/R_e \leq (L_a/R_a \text{ or } L_o/R_o)$ and $L_i/R_i \leq (L_a/R_a \text{ or } L_o/R_o)$

- 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).

- No revisions to drawing without prior FM Approvals authorisation.

CSA

- Installation must be in accordance with Canadian Electrical Code for Hazardous Locations

AVERTISSEMENT - LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSEQUE

AVERTISSEMENT - LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA CONFORMITÉ POUR DIV 2 / ZONE 2

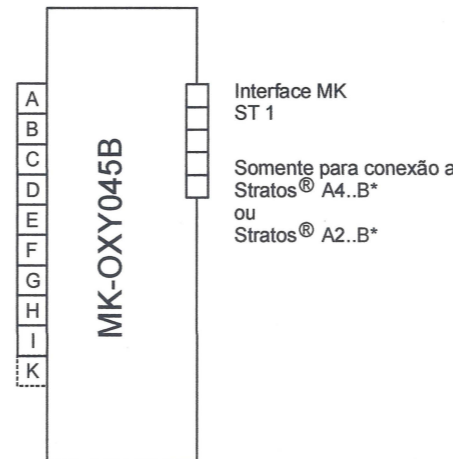
AVERTISSEMENT - NE PAS SÉPARER LE MODULE SOUS TENSION

Módulo de Medição Tipo MK-OXY045B para Stratos® Tipo A4..B*, A2..B*

Desenho de controle INMETRO 212.002-100

Interface MK		Em tipo de proteção: „segurança intrínseca“, somente para conexão a Stratos® A4..B*, A2..B*									
Malha de Medição de Oxigênio/ISM/Temperatura (Terminais A, B, C, D, E, F, G, H, I,)		Ex ic IIC, IIIC Ex nA IIC			Ex ic IIB, IIIB Ex nA IIB			Ex ic IIA, IIIA Ex nA IIA			
		Uo, Voc (V)	Io, Isc (mA)	Po (mW)	Co, Ca (µF)	Lo, La (mH)	Co, Ca (µF)	Lo, La (mH)	Co, Ca (µF)	Lo, La (mH)	Característica linear
3	6	18	1000	1000	1000	1000	1000	1000	1000	1000	

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



ATENÇÃO - A SUBSTITUIÇÃO DE COMPONENTES PODE PREJUDICAR A SEGURANÇA INTRÍNSECA

ATENÇÃO - A SUBSTITUIÇÃO DE COMPONENTES PODE PREJUDICAR A APTIDÃO PARA DIV 2 / ZONA 2

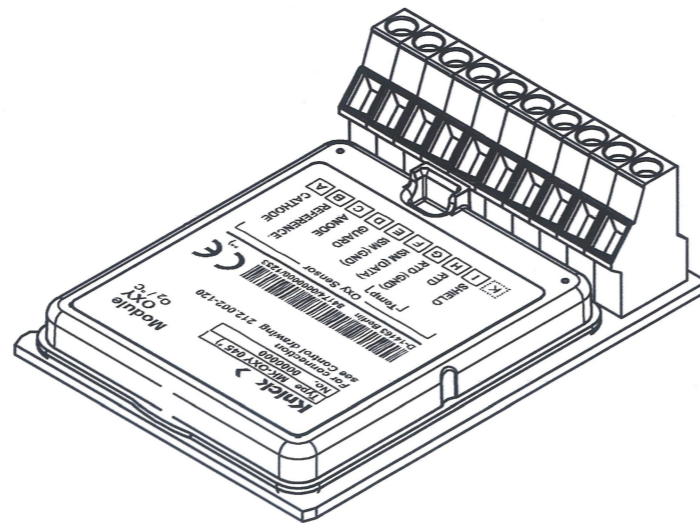
ATENÇÃO - NÃO SEPRE O MÓDULO QUANDO ENERGIZADO

Notas:

INMETRO

- Quando instalado em Stratos® Tipo A4..B, A2..B: 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.



Verteiler: FUL (2x)			Zul. Abweichungen für Maße ohne Toleranzangabe			Maßstab		
						Halbzeug		
8	ATENÇÃO	13.02.18	dam		Datum	Name	Benennung	
7	Units	24.01.18	dam	Bearb.	28.05.2008	dam	MK-OXY045B	
6	page1 "X", page2 "B"	13.01.16	dam	Gepr. (KB)	14.02.18	ad	Control drawing	
5	Texts	21.09.15	dam	Freigabe	14.02.18	RB	Zeichnungsnummer	
4	Texts	04.09.12	dam	Schutzvermerk nach ISO16016 beachten.			212.002-120	
3	INMETRO Texte	06.04.11	dam				Blatt	
1	Texts	25.08.09	dam				2	
1	FM u. CSA	23.01.09	dam				2 Bl.	
Nr.	Änderungen	Datum	Bearb.	FGL KON	Elektronische Messgeräte GmbH & Co. KG			



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