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**Measuring Module Type MK-COND025X for:**

Stratos Pro Type A2..X...      Stratos Multi Type E401X...  
 IECEx, ATEX Control drawing 212.002-100 page 1      IECEx, ATEX Control drawing 212.502-100 page 1  
 cFMus Control drawing 212.002-300      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 (µF)	Lo, La (mH)	Co, Ca (µF)	Lo, La (mH)	Co, Ca (µF)
Conductivity Measuring Loop (Terminals A, B, C, D, H)	5	36	45	100	25	1000	100	1000	210	Linear characteristic	
Temperature Measuring Loop (Terminals E, F, G)	5	27	34	100	50	1000	200	1000	400	Linear characteristic	
Conductivity/Temperature Measuring Loop (Terminals A, B, C, D, E, F, G, H)	5	63	79	100	8	1000	30	1000	70	Linear characteristic	
Conductivity/Temperature Measuring Loop (Terminals A, B, C, D, E, F, G, H)				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	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-COND025X 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 Co, Ca (µF)	Ex ia IIB, IIIB Lo, La (mH)	Ex ia IIA, IIIA Co, Ca (µF)	Lo, La (mH)	Co, Ca (µF)	Lo, La (mH)	Co, Ca (µF)	Lo, La (mH)
Malha de Medição de Condutividade (Terminais A,B,C,D,H)	5	36	45	100	25	1000	100	1000	210	Característica linear	
Malha de Medição de Temperatura (Terminais E, F, G)	5	27	34	100	50	1000	200	1000	400	Característica linear	
Malha de Medição de Condutividade/Temperatura (Terminais A, B, C, D, E, F, G, H)	5	63	79	100	8	1000	30	1000	70	Característica linear	
Malha de Medição de Condutividade/Temperatura (Terminais A, B, C, D, E, F, G, H)				Ex ic IIC, IIIC	Ex ic IIB, IIIB	Ex ic IIA, IIIA					
	3	6	18	1000	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

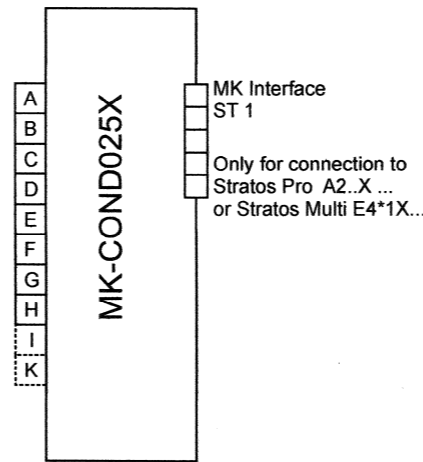
Notes:

**IECEX, ATEX, cFMus**

- When installed in Stratos the Intrinsically Safe Equipment connecting to A, B, C, D, E, F, G, H must be IECEx or ATEX or NRTL 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.

**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.

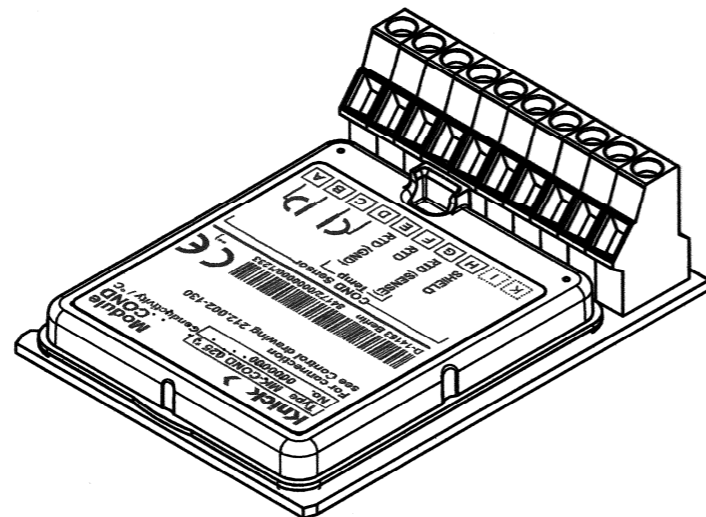
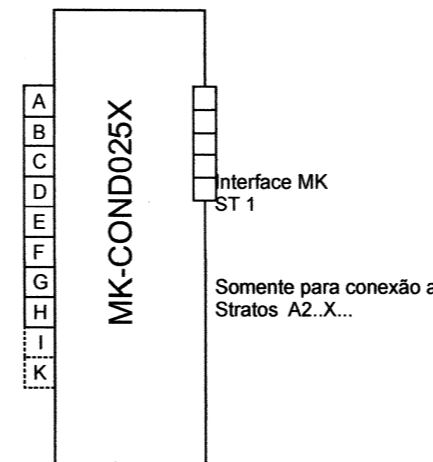


AVISO A SUBSTITUIÇÃO DE COMPONENTES PODE PREJUDICAR A SEGURANÇA INTRÍNSECA  
 AVISO A SUBSTITUIÇÃO DE COMPONENTES PODE PREJUDICAR A EFICIÊNCIA EM ZONE 2  
 AVISO NÃO SEPARAR O MÓDULO QUANDO ENERGIZADO

Notas:

**INMETRO**

- Quando instalado em Stratos® Tipo A2..X...: O equipamento intrinsecamente seguro conectado a A, B, C, D, E, F, G, H 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	
				Bearbeitet	Datum	
				13.02.2009	Name	
				dam	Benennung	
				Geprüft	MK-COND025X	
				Freigabe	Control drawing	
				Schutzvermerk nach ISO16016 beachten.	Zeichnungsnummer	
					212.002-130	
					Blatt	
					1	
					Bl.	
Nr.	Änderungen	Datum	Bearb.	Freigabe	Elektronische Messgeräte GmbH & Co. KG	



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