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Measuring Module Type MK-COND025X for Stratos® Type A2..X*

IECEEx, 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, only for connection to 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		
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

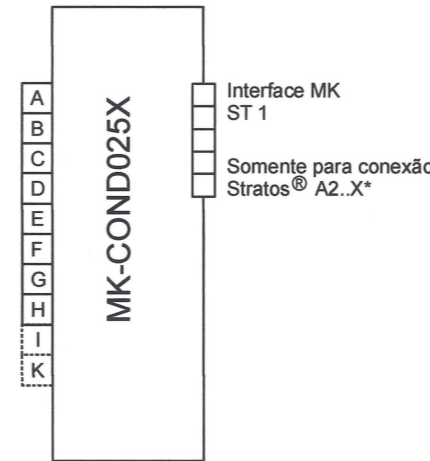
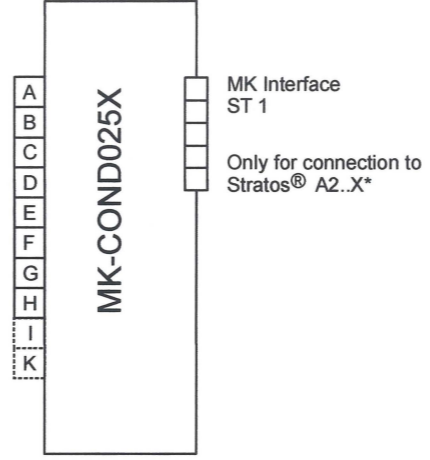
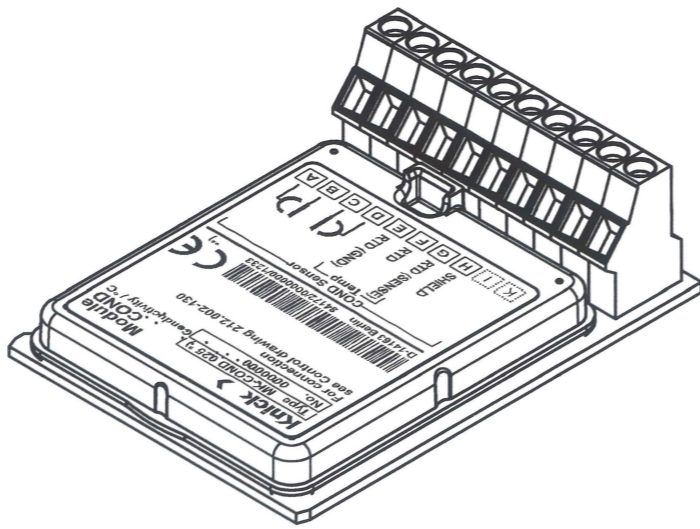
The measuring circuits are galvanically connected
 Do not mix different Types of Protection

Módulo de Medição Tipo MK-COND025X para Stratos® Tipo A2..X*

Desenho de controle INMETRO 212.002-100

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		Ex ia IIB, IIIB		Ex ia IIA, IIIA		
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		
				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	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
 IECEEx, ATEX, FM, CSA
 1. When installed in Stratos® Type A2..X: Intrinsically Safe Equipment connecting to A, B, C, D, E, F, G, H must be IECEEx or ATEX or FM or CSA Approved or be a simple Apparatus.
 2. Simple Apparatus is defined as a device that does not generates more than 1.5 V, 0.1 A, or 25 mW.

FM
 3. 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 $L_i/R_i \leq (L_a/R_a \text{ or } L_o/R_o)$
 4. 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).
 5. No revisions to drawing without prior FM Approvals authorisation.

CSA
 6. Installation must be in accordance with Canadian Electrical Code for Hazardous Locations

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

Weitergabe sowie Vervielfältigung dieses Dokuments, Verwertung und Mitteilung seines Inhalts sind verboten, soweit nicht ausdrücklich erlaubt.

Verteiler: FUL (2x) <i>FUL 22.12.2017</i>		Zul. Abweichungen für Maße ohne Toleranzangabe		Maßstab Halbzeug	
				Benennung MK-COND025X Control drawing	
				Zeichnungsnummer 212.002-130	
				Blatt 1	
				2 Bl.	
5	page1 "X", page2 "B"	13.01.16	dam	Bearb.	13.02.2009 dam
4	Texts	21.09.15	dam	Gepr. (KON)	15.1.16 <i>R.R.</i>
3	Texts	05.09.12	dam	Freigabe	15.1.16 <i>R.R.</i>
2	INMETRO Texte	06.04.11	dam	Schutzvermerk nach ISO16016 beachten.	
1	Texts	25.08.09	dam		
Nr.	Änderungen	Datum	Bearb.	FGL KON	Elektronische Messgeräte GmbH & Co. KG

