

Measuring Module Type MK-CONDI035X 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

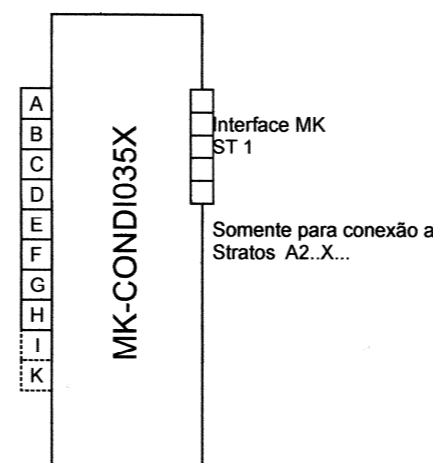
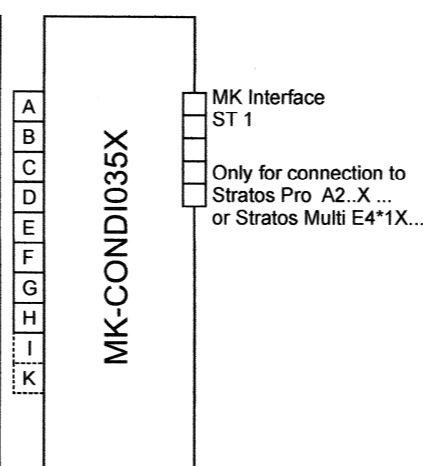
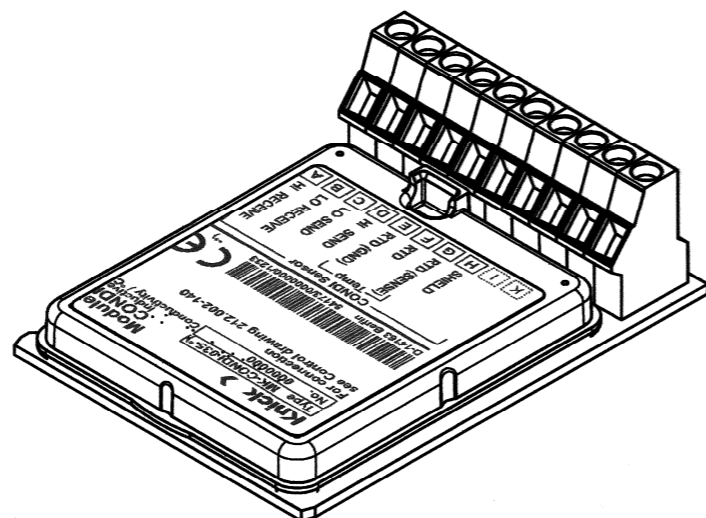
MK interface	In type of protection intrinsic safety, only for connection to Stratos® A2..X..., E401X...									
	Uo, Voc (V)	Io, Isc (mA)	Po (mW)	Ex ia IIC, IIIC CI I, Zone 0, Grp IIC CI I, Div 1, Grp A & B		Ex ia IIB, IIIB CI I, Zone 0, Grp IIB CI I, Div 1, Grp C & E		Ex ia IIA, IIIA CI I, Zone 0, Grp IIA CI I, Div 1, Grp D, F & G		
Conductivity Measuring Loop (Terminals A, B, C, D, H)	10	97	121	3	3	20	12	100	24	Linear characteristic
Temperature Measuring Loop (Terminals E, F, G)	10	13	16	3	200	20	700	100	1000	Linear characteristic
Conductivity/Temperature Measuring Loop (Terminals A, B, C, D, E, F, G, H)	10	98	123	3	3	20	12	100	24	Linear characteristic
Conductivity/Temperature Measuring Loop (Terminals A, B, C, D, E, F, G, H)				Ec 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-CONDI035X 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		Ex ia IIB, IIIB		Ex ia IIA, IIIA		
Malha de Medição de Condutividade (Terminais A,B,C,D,H)	10	97	121	3	3	20	12	100	24	Característica linear
Malha de Medição de Temperatura (Terminais E, F, G)	10	13	16	3	200	20	700	100	1000	Característica linear
Malha de Medição de Condutividade/Temperatura (Terminais A, B, C, D, E, F, G, H)	10	98	123	3	3	20	12	100	24	Característica linear
Malha de Medição de Condutividade/Temperatura (Terminais A, B, C, D, E, F, G, H)				Ec 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	
Datum				Halbzeug	
Name				Benennung	
Bearbeitet 06.03.2009 dam				MK-CONDI035X	
Geprüft 19.5.2009 dam				Control drawing	
Freigabe 19.3.2010 dam				Zeichnungsnummer	
Schutzvermerk nach ISO16016 beachten.				212.002-140	
1 Texts 25.08.09 dam				Blatt	
2 INMETRO Texte 06.04.11 dam				1	
Nr. Änderungen Datum Bearb. Freigabe				Bl.	
Elektronische Messgeräte GmbH & Co. KG					



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