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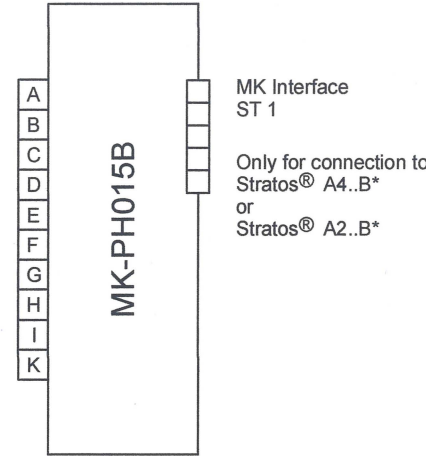
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Measuring Module Type MK-PH015B for Stratos® Type A4..B*, A2..B*

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* | | | | | | | | | | |
|--|--|-----------------|------------|------------------------------|----------------|------------------------------|----------------|------------------------------|----------------|----------------|----------------|
| | | | | 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 | | | | | | | | | | |
| pH/ISM/Temperature/Supply Measuring Loop (Terminals A, B, C, D, E, F, G, H, I, K) | 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) |
| | 3 | 6 | 18 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Linear characteristic | | | | | | | | | | | |

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, K 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 generate 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 $C_o \geq \Sigma C_i + \Sigma C_{cable}$
 For inductance use either L_a or $L_o \geq \Sigma L_i + \Sigma L_{cable}$ 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 INTRINÈQUE

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

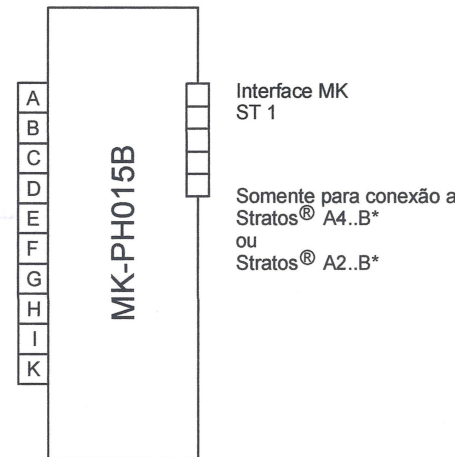
AVERTISSEMENT - NE PAS SÉPARER LE MODULE SOUS TENSION

Módulo de Medição Tipo MK-PH015B para Stratos® 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* | | | | | | | | | | |
|--|---|-----------------|------------|------------------------------|----------------|------------------------------|----------------|------------------------------|----------------|----------------|----------------|
| | | | | Ex ic IIC, IIIC Ex nA IIC | | Ex ic IIB, IIIB Ex nA IIB | | Ex ic IIA, IIIA Ex nA IIA | | | |
| | Característica linear | | | | | | | | | | |
| Malha de Medição de pH/ISM/Temperatura/Alimentação (Terminais A, B, C, D, E, F, G, H, I, K) | 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) |
| | 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

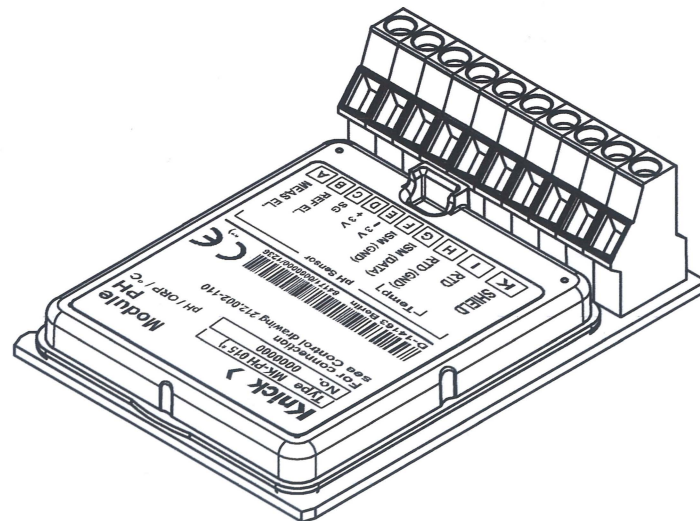
ATENÇÃO - A SUBSTITUIÇÃO DE COMPONENTES PODE PREJUDICAR A APTIDÃO PARA DIV 2 / ZONA 2

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, K 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 MK-PH015B Control drawing | | |
| 7 | Units | 24.01.18 | dam | Bearb. | 28.05.2008 | dam | Zeichnungsnummer 212.002-110 | |
| 6 | page1 "X", page2 "B" | 08.01.16 | dam | Gepr. (KB) | 14.02.18 | act | Blatt 2 | |
| 5 | Texts | 21.09.15 | dam | Freigabe | 14.02.18 | act | 2 Bl. | |
| 4 | Texts | 04.09.12 | dam | Schutzvermerk nach ISO16016 beachten. | | | | |
| 3 | INMETRO Texte | 06.04.11 | dam | | | | | |
| 2 | Texts | 25.08.09 | dam | | | | | |
| 1 | FM u. CSA | 23.01.09 | dam | | | | | |
| Nr. | Änderungen | Datum | Bearb. | FGL KON | Elektronische Messgeräte GmbH & Co. KG | | | |

