

**2-Wire Transmitter Stratos Pro Type A201X... or A211X... (intrinsically safe / nonincendive field wiring apparatus)**

Enclosure TYPE 4X, IP66/IP67  
 Tamb = -20°C to +65°C  
 IS, Class I,II,III, Division 1, Groups ABCDEFG, T4

NI, Class I, Division 2, Groups ABCD, T4; nonincendive field wiring;  
 NI, Class II,III, Division 2, Groups FG, T135°C; nonincendive field wiring;

Class I, Zone 0, AEx ia IIC T4 Ga (US)      Class I, Zone 0, Ex ia IIC T4 Ga (CA)  
 Class I, Zone 1, AEx ib[ia Ga] IIC T4 Gb (US)      Class I, Zone 1, Ex ib[ia Ga] IIC T4 Gb (CA)  
 Zone 21, AEx ib[ia Da] IIC T135°C Db (US)      Zone 21, Ex ib[ia Da] IIC T135°C Db (CA)

**2-Wire Transmitter Stratos Pro Type A201B... (intrinsically safe / nonincendive field wiring apparatus)**

Enclosure TYPE 4X, IP66/IP67  
 Tamb = -20°C to +65°C

NI, Class I, Division 2, Groups ABCD, T4; nonincendive field wiring;  
 NI, Class II,III, Division 2, Groups FG, T135°C; nonincendive field wiring;

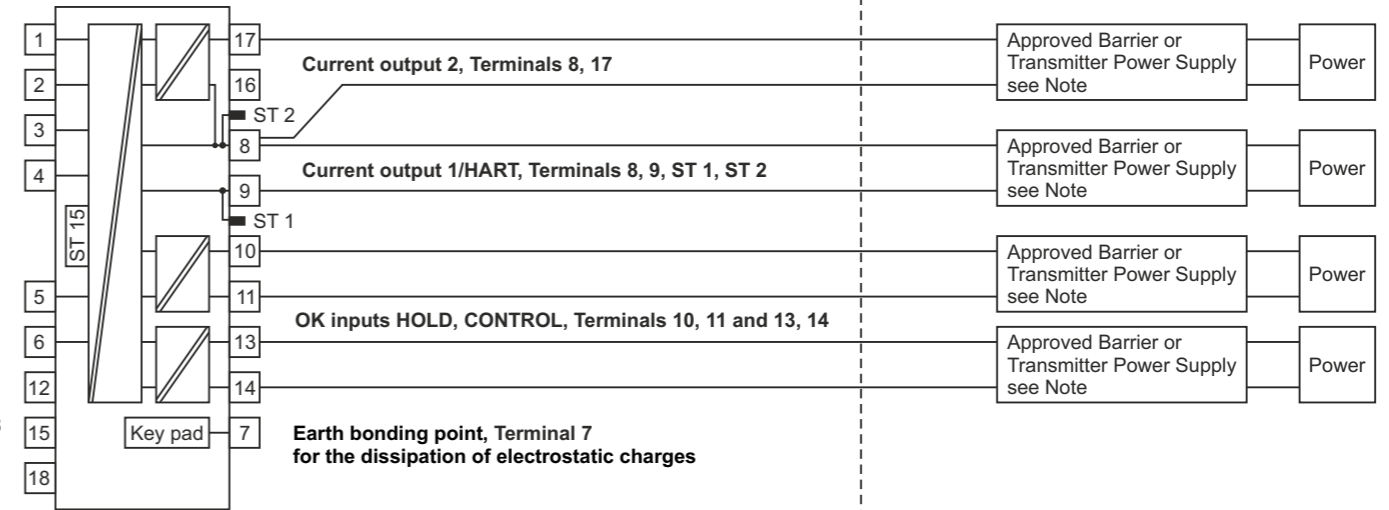
Class I, Zone 2, AEx ic IIC T4 Gc (US)      Class I, Zone 2, Ex ic IIC T4 Gc (CA)  
 Zone 22, AEx ic IIC T135°C Dc (US)      Zone 22, Ex ic IIC T135°C Dc (CA)

RS 485 (InduCon/Memosens) Terminals 1, 2, 3, 4

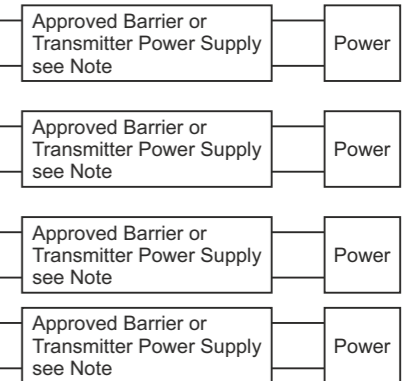
MK interface ST 15

Current input Terminals 5, 6

Terminals 12, 15, 16, 18 not connected



Associated IS or NIFW Apparatus



WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS  
 AVERTISSEMENT – DANGER POTENTIEL DE CHARGES ÉLECTROSTATIQUES – VOIR INSTRUCTIONS

WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY  
 AVERTISSEMENT - LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE

CAUTION - To avoid damage to the case when connecting to a rigid metallic conduit system, the conduit hub must be connected to the conduit before the hub is connected to the enclosure.

CAUTION - Bonding between conduits is not automatic. Bonding must be provided by the installation. Use the supplied sheet metal jumper for this purpose.

**Notes**

- The Intrinsic Safety Entity concept allows the interconnection of NRTL approved intrinsically safe devices with entity parameters not specifically examined in combination as a systems when:  
 $U_o$  or  $V_o$  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  $L_o/R_o)$ .
- Associated nonincendive field wiring apparatus shall not be connected in parallel.
- Installation shall be in accordance with ANSI/ISA RP12.06.01, "Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations" and the National or Canadian Electrical Code as applicable. Use only cables with a temperature rating of at least 75°C (167°F).
- No revisions to drawing without prior FM Approvals authorization.
- Intrinsically Safe Equipment connecting to 1 to 17 must be NRTL Approved or be a simple Apparatus.
- Associated apparatus must be NRTL Approved and must be used in an NRTL Approved configuration. The Control drawing for the associated apparatus must be followed when installing this equipment.
- Control equipment connected to the associated apparatus must not use or generate more than 250 V.

Type of protection intrinsic safety Ex ia or Division 1 or Ex ib or Ex ic or type of protection nonincendive field wiring Division 2 with the following maximum values											
	U <sub>i</sub> , V <sub>max</sub> (V)	I <sub>i</sub> , I <sub>max</sub> (mA)	P <sub>i</sub> , P <sub>max</sub> (mW)	C <sub>i</sub> (nF)	L <sub>i</sub> (μF)						
Current output 1 / HART (Terminals 8, 9, ST1, ST2)	30	100	800	5.3	2.5						
Current output 2 (Terminals 8, 17)	30	100	800	5.3	2.5						
Current input (Terminals 5, 6)	30	100	800	12	0						
OK input HOLD (Terminals 10, 11)	30	100	1000	0	0						
OK input CONTROL (Terminals 13, 14)	30	100	1000	0	0						
Type of protection intrinsic safety Ex ic or Division 1 intrinsically safe, with the following maximum values											
Explosive gas atmosphere	CI Zone 0, Grp IIC, IIB and IIA CI Div 1, Grp ABCD			CI Zone 0, Grp IIC CI Div 1, Grp AB		CI Zone 0, Grp IIB CI, Div 1, Grp C		CI Zone 0, Grp IIA CI, Div 1, Grp D		Grp IIC, IIB and IIA Grp ABCD	
Explosive dust atmosphere	Zone 21 Grp IIIC CI II, III Div 1, Grp FG					Zone 21 Grp IIIC CI II, III Div 1, Grp FG				Grp IIIC Grp FG	
	U <sub>o</sub> , Voc (V)	I <sub>o</sub> , I <sub>sc</sub> (mA)	P <sub>o</sub> (mW)	Co, Ca (μF)	Lo, La (mH)	Co, Ca (μF)	Lo, La (mH)	Co, Ca (μF)	Lo, La (mH)	Ci (μF)	Li (μH)
RS 485 (InduCon/Memosens) (Terminals 1, 2, 3, 4) Linear characteristic	5	124	155	83.2	2	1000	8.5	1000	16	10.7	1.2
Type of protection intrinsic safety Ex ic or Division 2 nonincendive field wiring, with the following maximum values											
Explosive gas atmosphere	CI Zone 2, Grp IIC, IIB and IIA CI Div 2, Grp ABCD			CI Zone 2, Grp IIC CI Div 2, Grp AB		CI Zone 2, Grp IIB CI, Div 2, Grp C		CI Zone 2, Grp IIA CI, Div 2, Grp D		Grp IIC, IIB and IIA Grp ABCD	
Explosive dust atmosphere	Zone 22 Grp IIIC CI II, III Div 2, Grp FG					Zone 22 Grp IIIC CI II, III Div 2, Grp FG				Grp IIIC Grp FG	
	U <sub>o</sub> , Voc (V)	I <sub>o</sub> , I <sub>sc</sub> (mA)	P <sub>o</sub> (mW)	Co, Ca (μF)	Lo, La (mH)	Co, Ca (μF)	Lo, La (mH)	Co, Ca (μF)	Lo, La (mH)	Ci (μF)	Li (μH)
RS 485 (InduCon/Memosens) (Terminals 1, 2, 3, 4) Linear characteristic	5	124	155	1000	5	1000	20	1000	50	10.7	1.2
MK interface	only for connection to a measuring module MK-..., belonging to Stratos® Pro Type A... System										
Earth bonding point (Terminal 7)	for the dissipation of electrostatic charges										

Simultaneous connection of a measuring module MK-... and an InduCon/Memosens measuring system is not permitted

IS Safe galvanic isolation up to 60 V

Zulassung cFMus FM21US0078 FM21CA0052		Benennung <b>Control Drawing Stratos Pro A201X..., A211X..., A201B...</b>		Zeichnungsnummer <b>212.110-066</b>		2	
Bearbeitet	25.04.2023	ack					
Gepüft	25.04.2023	<i>C. Klein</i>					
Freigabe	25.04.2023	<i>P. Krause</i>					
Schutzvermerk nach ISO16016 beachten.		Elektronische Messgeräte GmbH & Co. KG					
Nr.	Änderungen	Datum	Bearb.	Freigabe			

**Knick**