

Certificate of Compliance

Certificate:	70212175	Γ	Master Contract:	246454
Project:	80060583	1	Date Issued:	November 30, 2020
Issued to:	KEM Kuepp 5 Liebigstras Karlsfeld, Bayern D-85 GERMANY	eers Elektromechanik Gmb sse 757	эΗ	
	Attention:	Mr. David Sperber		

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by:

Sripriya Kalyanasundaram

PRODUCTS

CLASS 2258 02 - Process Control Equipment - For Hazardous Locations

TCE - Tricor Coriolis Electronics (Transmitter - Compact)

Ex db ia IIC T4 Gb Class I, Div. 1, Groups A, B, C and D, T4

(Compact Version) Tricor TCE 80xx Series Transmitter with Tricor TCM *0325, *0650, *1550, *3100, *5500 or *7900; rated 100 to 240 Vac, 50/60 Hz, 13W or 24 Vdc, 4W; T4 @ Ambient Temperature -40°C \leq Ta \leq +50°C (AC unit); Ambient Temperature -40°C \leq Ta \leq +70°C (DC unit); process fluid temperature range -40°C \leq Tprocess \leq +50°C (AC unit); -40°C \leq Tprocess \leq +70°C (DC unit).

Ex db ia IIB T4 Gb Class I, Div. 1, Groups C and D, T4

(Compact Version) Tricor TCE 80xx Series Transmitter with Tricor TCM *028K or *065K; rated 100 to 240 Vac, 50/60 Hz, 13W or 24 Vdc, 4W; T4 @ Ambient Temperature -40°C \leq Ta \leq +50°C (AC unit); Ambient Temperature -40°C \leq Ta \leq +70°C (DC unit); process fluid temperature range -40°C \leq Tprocess \leq +50°C (AC unit); -40°C \leq Tprocess \leq +70°C (DC unit).



TCE - Tricor Coriolis Electronics (Transmitter - Remote)

Ex db [ia Ga] IIC T4 Gb Class I, Div. 1, Groups A, B, C and D, T4 associated device for IS Class I, Division 1

(**Remote Version**) Tricor Transmitter TCE 80xx; rated 100 to 240 Vac, 50/60 Hz, 13W or 24 Vdc, 4W; T4 @ Ambient Temperature $-40^{\circ}C \le Ta \le +50^{\circ}C$ (AC unit); Ambient Temperature $-40^{\circ}C \le Ta \le +70^{\circ}C$ (DC unit)

Class I, Div. 1, Groups B, C and D, T4 associated device for IS Class I, Division 1

(Remote Version with Adalet XYB Explosion-proof Seal) Tricor Transmitter TCE 80xx; rated 100 to 240 Vac, 50/60 Hz, 13W or 24 Vdc, 4W; T4 @ Ambient Temperature $-25^{\circ}C \le Ta \le +40^{\circ}C$.

CLASS 2258 82 – Process Control Equipment - For Hazardous Locations – Certified to US Standards

TCE - Tricor Coriolis Electronics (Transmitter - Compact)

Class I, Zone 1, AEx db ia IIC T4 Gb Class I, Div. 1, Groups A, B, C and D, T4

(Compact Version) Tricor TCM *0325, *0650, *1550, *3100, *5500 or *7900 with Tricor TCE 80xx Series Transmitter; rated 100 to 240 Vac, 50/60 Hz, 13W or 24 Vdc, 4W; T4 @ Ambient Temperature -40°C \leq Ta \leq +50°C (AC unit); Ambient Temperature -40°C \leq Ta \leq +70°C (DC unit); process fluid temperature range -40°C \leq +50°C (AC unit); -40°C \leq Tprocess \leq +70°C (DC unit).

Class I, Zone 1, AEx db ia IIB T4 Gb Class I, Div. 1, Groups C and D, T4

(Compact Version) Tricor TCM *028K, *065K with Tricor TCE 80xx Series Transmitter; rated 100 to 240 Vac, 50/60 Hz, 13W or 24 Vdc, 4W; T4 @ Ambient Temperature -40°C \leq Ta \leq +50°C (AC unit); Ambient Temperature -40°C \leq Ta \leq +70°C (DC unit); process fluid temperature range -40°C \leq Tprocess \leq +50°C (AC unit); -40°C \leq Tprocess \leq +70°C (DC unit).

TCE - Tricor Coriolis Electronics (Transmitter - Remote)

Class I, Zone 1, AEx db [ia Ga] IIC T4 Gb Class I, Div. 1, Groups A, B, C and D, T4 associated device for IS Class I, Division 1

(**Remote Version**) Tricor Transmitter TCE 80xx; rated 100 to 240 Vac, 50/60 Hz, 13W or 24 Vdc, 4W; T4 @ Ambient Temperature $-40^{\circ}C \le Ta \le +50^{\circ}C$ (AC unit); Ambient Temperature $-40^{\circ}C \le Ta \le +70^{\circ}C$ (DC unit)

Class I, Div. 1, Groups B, C and D, T4 associated device for IS Class I, Division 1

(Remote Version with Adalet XYB Explosion-proof Seal) Tricor Transmitter TCE 80xx; rated 100 to 240 Vac, 50/60 Hz, 13W or 24 Vdc, 4W; T4 @ Ambient Temperature $-25^{\circ}C \le Ta \le +40^{\circ}C$.



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Input	Um = 250 Vac			
Output	Entity paramete	Entity parameters		
Oscillator/Driver coil	TCE 800n	Uo = 8.27 V, Io = 0.2 A, Po = 0.4135 W, Co = 7.2 μF, Lo = 0.84 mH		
(Linear)	(low power)			
	TCE 801n	Uo = 15.34 V, Io = 0.37 A, Po = 1.42 W, Co = 0.521 μF, Lo = 0.21 mH		
	(high power)			
Signal pick-up coil (Linear)	Uo = 2 V, Io = 0	$0.02 \text{ A}, \text{Po} = 0.01 \text{ W}, \text{Co} = 100 \ \mu\text{F}, \text{Lo} = 88.84 \text{ mH}$		
Temperature sensor	Uo = 5 V, Io = 0	$0.045 \text{ A}, \text{Po} = 0.4132 \text{ W}, \text{Co} = 100 \ \mu\text{F}, \text{Lo} = 17.51 \text{ mH}$		
(Trapezoidal)				

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non - Incendive Systems - For Hazardous Locations

TCM – Tricor Coriolis Meter (Transducer)

Ex ia IIC T4...T2 Ga

IS Class I, Div. 1, Groups A, B, C and D, T4...T2

(Remote Version) Tricor Transducer TCM *0050, *0100, *0325, *0450, *0650, *1550, *3100, *5500 or *7900; Ambient Temperature -40°C \leq Ta \leq +70°C; process fluid temperature range -40°C \leq Tprocess \leq +70°C (for T4); process fluid temperature range -40°C \leq Tprocess \leq +135°C (for T3); process fluid temperature range -60°C \leq Tprocess \leq +200°C (for T2)

Ex ia IIB T4...T2 Ga

IS Class I, Div. 1, Groups C and D, T4...T2

(**Remote Version**) Tricor Transducer TCM *028K, *065K, *230K or *430K; Ambient Temperature -40°C \leq Ta \leq +70°C; process fluid temperature range -40°C \leq Tprocess \leq +70°C (for T4); process fluid temperature range -40°C \leq Tprocess \leq +135°C (for T3); process fluid temperature range -60°C \leq Tprocess \leq +200°C (for T2)

Туре	Flow rate	Entity parameters			Gas
		Oscillator/Driver coil	Signal pick-up coil	Temperature sensor	Group
		(Linear)	(Linear)	(Trapezoidal)	
TCM*0050	\leq 50 kg/h	Ui = 8.27 V,	Ui = 2 V,	Ui = 5 V,	A/IIC
		Ii = 0.2 A,	Ii = 0.02 A,	Ii = 0.045 A,	
TCN (*0100	< 100 1 . /	Pi = 0.4135 W,	Pi = 0.01 W,	Pi = 0.4132 W,	
1CM*0100	$\leq 100 \text{ kg/n}$	Ci = 0 F,	$Ci = 0 \mu F,$	Ci = 0 F,	
		Li = 5.25 mH	Li = 5.25 mH	Li = 0 H	
TCM*0325	\leq 325 kg/h	Ui = 8.27 V,	Ui = 2 V,		A/IIC
TCM*0450	\leq 450 kg/h	Ii = 0.2 A ,	Ii = 0.02 A,		A/IIC
TCM*0650	\leq 650 kg/h	Pi = 0.4135 W,	Pi = 0.01 W,		A/IIC
TCM*1550	\leq 1,550 kg/h	Ci = 0 F,	Ci = 0 F,		A/IIC
TCM*3100	\leq 3,100 kg/h	Li = 1.94 mH	Li = 1.94 mH		A/IIC
TCM*5500	\leq 5,500 kg/h				A/IIC
TCM*7900	\leq 7,900 kg/h				A/IIC
TCM*028K	\leq 28,000 kg/h	Ui = 15.34 V,			C/IIB
TCM*065K	\leq 65,000 kg/h	Ii = 0.37 A,			C/IIB
		Pi = 1.42 W,			
		Ci = 0 F,			
		Li = 7.875 mH			



Туре	Flow rate	Entity parameters	Entity parameters		
		Oscillator/Driver coil	Signal pick-up coil	Temperature sensor	Group
		(Linear)	(Linear)	(Trapezoidal)	
TCM*230K	\leq 230,000 kg/h	Ui = 15.34 V,			C/IIB
TCM*430K	\leq 430,000 kg/h	Ii = 0.37 A,			C/IIB
		Pi = 1.42 W,			
		Ci = 0 F,			
		Li = 13.65 mH			

The type name is further classified by letters or numbers not affecting Ex-relevant parameters

TCM – Tricor Coriolis Meter (Transducer); models *0050, *0100, *0450, *230K and *430K are available in remote configuration only.

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive - Systems-For Hazardous Locations-Certified to U.S. Standards

TCM – Tricor Coriolis Meter (Transducer)

Class I, Zone 0, AEx ia IIC T4...T2 Ga

IS Class I, Div. 1, Groups A, B, C and D, T4...T2

(Remote Version) Tricor Transducer TCM *0050, *0100, *0325, *0450, *0650, *1550, *3100, *5500 or *7900; Ambient Temperature -40°C \leq Ta \leq +70°C; process fluid temperature range -40°C \leq Tprocess \leq +70°C (for T4); process fluid temperature range -40°C \leq Tprocess \leq +135°C (for T3); process fluid temperature range -60°C \leq Tprocess \leq +200°C (for T2)

Class I, Zone 0, AEx ia IIB T4...T2 Ga

IS Class I, Div. 1, Groups C and D, T4...T2

(**Remote Version**) Tricor Transducer TCM *028K, *065K, *230K or *430K; Ambient Temperature $-40^{\circ}C \le Ta \le +70^{\circ}C$; process fluid temperature range $-40^{\circ}C \le Tprocess \le +70^{\circ}C$ (for T4); process fluid temperature range $-40^{\circ}C \le Tprocess \le +135^{\circ}C$ (for T3); process fluid temperature range $-60^{\circ}C \le Tprocess \le +200^{\circ}C$ (for T2)

Туре	Flow rate	Entity parameters			Gas
		Oscillator/Driver coil	Signal pick-up coil	Temperature sensor	Group
		(Linear)	(Linear)	(Trapezoidal)	
TCM*0050	\leq 50 kg/h	Ui = 8.27 V,	Ui = 2 V,	Ui = 5 V,	A/IIC
		Ii = 0.2 A,	Ii = 0.02 A,	Ii = 0.045 A,	
	. 1001 /	Pi = 0.4135 W,	Pi = 0.01 W,	Pi = 0.4132 W,	
TCM*0100	$\leq 100 \text{ kg/h}$	Ci = 0 F,	$Ci = 0 \mu F,$	Ci = 0 F,	
		Li = 5.25 mH	Li = 5.25 mH	Li = 0 H	
TCM*0325	\leq 325 kg/h	Ui = 8.27 V,	Ui = 2 V,		A/IIC
TCM*0450	\leq 450 kg/h	Ii = 0.2 A,	Ii = 0.02 A,		A/IIC
TCM*0650	\leq 650 kg/h	Pi = 0.4135 W,	Pi = 0.01 W,		A/IIC
TCM*1550	\leq 1,550 kg/h	Ci = 0 F,	Ci = 0 F,		A/IIC
TCM*3100	\leq 3,100 kg/h	Li = 1.94 mH	Li = 1.94 mH		A/IIC
TCM*5500	\leq 5,500 kg/h				A/IIC
TCM*7900	\leq 7,900 kg/h				A/IIC
TCM*028K	\leq 28,000 kg/h	Ui = 15.34 V,			C/IIB



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Туре	Flow rate	Entity parameters			Gas
		Oscillator/Driver coil	Signal pick-up coil	Temperature sensor	Group
		(Linear)	(Linear)	(Trapezoidal)	
TCM*065K	\leq 65,000 kg/h	Ii = 0.37 A,			C/IIB
		Pi = 1.42 W,			
		Ci = 0 F,			
		Li = 7.875 mH			
TCM*230K	\leq 230,000 kg/h	Ui = 15.34 V,			C/IIB
TCM*430K	\leq 430,000 kg/h	Ii = 0.37 A,			C/IIB
	_	Pi = 1.42 W,			
		Ci = 0 F,			
		Li = 13.65 mH			
The type nam	e is further classifie	d by letters or numbers not a	ffecting Ex-relevant param	leters	

TCM – Tricor Coriolis Meter (Transducer); models *0050, *0100, *0450, *230K and *430K are available in remote configuration only.

Notes:

- 1. The above model is Pollution Degree 2, Overvoltage Category II
- 2. Mode of operation: Continuous

Environmental Conditions: See the ambient temperature table above, 2000 m max, 80% to temperatures up to 31 °C decreasing linearly to 50% R.H. at 40 °C

Conditions of Acceptability:

- 1. Connection to mains shall be made in accordance with ANSI/NFPA 70, NEC, with CSA C22.1, CEC, Part 1, or both as appropriate.
- 2. The temperature of the equipment can reach 82°C at the cable entry and the branching point in a 70°C ambient. This must be considered when selecting field wiring and cable entry devices.
- 3. Suitable equipment certified blanking elements shall be fitted to all unused conduit entries to maintain the explosionproof and environmental characteristics of the equipment.
- 4. The process fluid of meter mounted (compact) versions of the TCM must be within the range of $-40^{\circ}C \le +50^{\circ}C$ for AC models and $-40^{\circ}C \le +70^{\circ}C$ for DC models.
- 5. The equipment contains a shunt zener diode interface, which requires connection to a suitable earth in accordance with the applicable code of practice.
- 6. Remote terminal boxes of the equipment may be manufactured from aluminium; in the event of rare incidents, ignition sources due to impact and friction sparks could occur. This shall be considered when the remote version of the TRICOR flow meters are being installed in locations that specifically require group II Zone 0 applications.
- 7. For remote versions of the TRICOR flow meters, the temperature class of the equipment is dictated by the process temperature in the end application:

T4: -40 °C \leq Tp \leq +70 °C T3: -40 °C \leq Tp \leq +135 °C T2: -60 °C \leq Tp \leq +200 °C

8. DC powered units shall be supplied with a Limited Energy Circuit (LEC), Class 2 as defined in article 725.121 of NFPA70, or Limited Power Source (LPS) as defined in CAN/CSA C22.2 No. 60950-1.



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9. Current Loop I1, I2 and Ctl in for all models are passive, and shall be supplied with Limited Energy Circuit (LEC), Class 2 as defined in article 725.121 of NFPA70, or Limited Power Source (LPS) as defined in CAN/CSA C22.2 No. 60950-1.

Model Code Structure

TCE - X	XXXX -	Х	- XXXX	- XX	- XX		
Unused E	nclosure &	Mounting	Interface	Hazardous	Customer		
]	Electronics	Options	Options	Location Rating	Options		
Product Code Reference	Ref	Descrip	otion				
Enclosure & Electronics	8001	Low Po	ower for TCM*005	0 to TCM*7900 (ALU He	ousing)		
	8011	High Po	ower for TCM*028	3K to TCM*430K (ALU I	Housing)		
	8012	High Po	ower for TCM*230	0K & TCM*430K (ALU I	Housing)		
		(remote	e only)				
Mounting Options	W	Wall m	ount housing (for ¹ /	2" NPT cable glands)			
	Ι	Wall m	ount housing (for N	M20x1.5 cable glands)			
	С	Meter r	Meter mount housing ALU (for ¹ /2" NPT cable glands)				
	К	Meter r	nount version, AL	U (for M20x1.5 cable glar	nds)		
Interface Options							
$X^1X^2X^3X^4$							
X ¹ - Interface	S	RS485	(Modbus RTU)				
	А	RS485	(Modbus RTU) &	HART			
	D	FF (onl	y housing W, I)				
	Е	FF+HA	RT (only housing	W, I)			
	Z	not use	d				
X^2 – Supply voltage	D	24V D0	5				
-	M	100 - 2	40V AC Mains				
X^3 – Transmitter	S	Standar	rd (Only for TCM*	*0050 & TCM*0100)			
Options	С	Pressur	e Compensation &	4-20mA Input			
	A	Standar	d, no options				
X^4 – Cable length	S/B/C/D/E/F/G	$/ 3 \leq \text{Me}$	ters ≤ 30				
	H/I/J/O/P/Q/N						
Hazardous Location	Ex1	cCSAu	s: Class I, Divsion	1 & Class I, Zone 1.			
Kating	Ex3	cCSAu	s: Class I, Divsion	1, Class I, Zone 1 and AT	EX/IECEx*		
Customer Specific	01-99	Custom	ner specific modific	cations not relevant to cert	ification		

* - Reliance is placed on IECEx SIR 18.0072X and Sira 18ATEX1264X for the ATEX/IECEx assessment.



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TCE 80** entity parameters

Input	Um = 250 Vac	
Output	Entity parameters	
Oscillator/Driver coil	TCE 800n (low power)	Uo = 8.27 V, Io = 0.2 A, Po = 0.4135 W, Co =
(Linear)		$7.2 \mu\text{F}, \text{Lo} = 0.84 \text{mH}$
	TCE 801n (high power)	Uo = 15.34 V, Io = 0.37 A, Po = 1.42 W, Co =
		$0.521 \mu\text{F}, \text{Lo} = 0.21 \text{mH}$
Signal pick-up coil (Linear)	Uo = 2 V, Io = 0.02 A, Po	$\mu = 0.01 \text{ W}, \text{ Co} = 100 \ \mu\text{F}, \text{ Lo} = 88.84 \text{ mH}$
Temperature sensor (Trapezoidal)	Uo = 5 V, Io = 0.045 A, P	$v_0 = 0.4132$ W, Co = 100 μ F, Lo = 17.51 mH

TCM	Х	XXXX	XX	XXXX	XXXX	XX	XX
	Meter	Max Flow	Process	Mechanical	Electronics	Ex Rating	Customer
	Series	Rate	Connections	Options	Options		Options
Version	1		Process temperature				
Compa	ct	-40	$-40 ^{\circ}\text{C} \leq \text{Tprocess} \leq +50 ^{\circ}\text{C} \text{ (for T4, AC); } -40 ^{\circ}\text{C} \leq \text{Tprocess} \leq +70 ^{\circ}\text{C} \text{ (for T4, DC)}$				
Remote	;		$-40 \text{ °C} \leq \text{Tprocess} \leq +70 \text{ °C} \text{ (for T4)}$				
			-40 °C \leq Tprocess \leq +135 °C (for T3)				
			-60 °C \leq Tprocess \leq +200 °C (for T2)				

Transducer Type TCM***** has the following type codes (first * - blank or a letter which is not related to Ex-relevant parameters)

Туре	Flow rate	Entity parameters			Gas
		Oscillator/Driver coil	Signal pick-up coil	Temperature sensor	Group
		(Linear)	(Linear)	(Trapezoidal)	
TCM*0050	\leq 50 kg/h	Ui = 8.27 V,	Ui = 2 V,	Ui = 5 V,	A/IIC
		Ii = 0.2 A,	Ii = 0.02 A,	Ii = 0.045 A,	
	< 100.1 //	- Pi = 0.4135 W,	Pi = 0.01 W,	Pi = 0.4132 W,	
TCM*0100	$\leq 100 \text{ kg/h}$	Ci = 0 F,	$Ci = 0 \mu F,$	Ci = 0 F,	
		Li = 5.25 mH	Li = 5.25 mH	Li = 0 H	
TCM*0325	\leq 325 kg/h	Ui = 8.27 V,	Ui = 2 V,		A/IIC
TCM*0450	\leq 450 kg/h	Ii = 0.2 A,	Ii = 0.02 A,		A/IIC
TCM*0650	\leq 650 kg/h	Pi = 0.4135 W,	Pi = 0.01 W,		A/IIC
TCM*1550	\leq 1,550 kg/h	Ci = 0 F,	Ci = 0 F,		A/IIC
TCM*3100	\leq 3,100 kg/h	Li = 1.94 mH	Li = 1.94 mH		A/IIC
TCM*5500	\leq 5,500 kg/h				A/IIC
TCM*7900	\leq 7,900 kg/h				A/IIC
TCM*028K	\leq 28,000 kg/h	Ui = 15.34 V,			C/IIB
TCM*065K	\leq 65,000 kg/h	Ii = 0.37 A,			C/IIB
		Pi = 1.42 W,			
		Ci = 0 F,			
		Li = 7.875 mH			
TCM*230K	\leq 230,000 kg/h	Ui = 15.34 V,			C/IIB
TCM*430K	≤ 430,000 kg/h	Ii = 0.37 A,			C/IIB
		Pi = 1.42 W,			
		Ci = 0 F,			
		Li = 13.65 mH			
The type name is further classified by letters or numbers not affecting Ex-relevant parameters					



TCM – Tricor Coriolis Meter (Transducer); models *0050, *0100, *0450, *230K and *430K are available in remote configuration only.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 61010-1-12 (R2017)	-	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements – Third Edition
ANSI/UL-61010-1 (2016)	-	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements – Third Edition (April 29, 2016)
C22.2 No. 0-10 (R2015)	-	General Requirements – Canadian Electrical Code, Part II
C22.2 No. 30-M1986 (R2016)	-	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA-C22.2 No. 60079-0:15	-	Explosive atmospheres — Part 0: Equipment — General requirements
(R2018)		
CAN/CSA-C22.2 No. 60079-1:16	-	Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures "d"
CAN/CSA-C22.2 No. 60079- 11:14 (R2018)	-	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i"
FM 3600 (2018)	-	Electrical Equipment for Use in Hazardous (Classified) Locations – General Requirements
FM 3615 (2018)	-	Explosionproof Electrical Equipment General Requirements
ANSI/UL-60079-0 (2013) (R2017)	-	Explosive atmospheres – Part 0:Equipment – General Requirements
ANSI/UL 60079-1 (2015)	-	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures "d"
ANSI/UL-60079-11-2018	-	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i"

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Nameplate adhesive label material approval information:



Adhesive labels are used; however, all markings as detailed below appear on a minimum 0.04" (1mm) thick stainless steel 316 plate, secured to the body with a 3mm thick stainless steel cable.

- CSA Monogram with c us Indicator (The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only), as shown on the Certificate of Compliance.
- Manufacturers name "KEM Küppers Elektromechanik GmbH", or CSA Master Contract number "246454" adjacent the CSA Mark, in lieu of manufacturers name.
- Model designation, as specified in the PRODUCTS section, above.
- Complete electrical rating, as specified in the PRODUCTS section, above.
- Maximum ambient temperature rating, as specified in the PRODUCTS section, above.
- Date code / Serial number traceable to month and year of manufacture.
- Hazardous locations designation, as specified in the PRODUCTS section, above or equivalent
- Temperature code, as specified in the PRODUCTS section, above.
- The warning words: "DO NOT OPEN IN AN EXPLOSIVE ATMOSPHERE" and "NE PAS OUVRIR EN ATMOSPHERE EXPLOSIVE" or equivalent.
- The warning words: "SEAL REQUIRED WITHIN 50mm" and "SCELLEMENT REQUIS A MOINS DE 50mm" or equivalent.
- When a Quintex type LB line bushing is fitted to a TCE 80XX transmitter, the equipment shall be marked 'Not suitable for installation in Ketone atmospheres' in both English and French.
- As per NFPA 70, NEC, 2017, Article 505.9(C)(1) and C22.1-18, the CEC, Table 18; remote versions of the TCE featuring an Adalet XYB explosionproof seal may be marked "Equipment suitable for Class I, Zone 1 IIB T4".
- Certificate Number Reference "19CA70212175" next to the CSA logo or preceded by "CSA" agency name.
- Process temperature range, as specified in the PRODUCTS section, above.
- For remote version only, the words: "Refer to Instruction Manual for Entity Parameters"
- Install per drawing "TCE EX Control drawing"
- Protective earthing TERMINAL is identified by the IEC 60417 No 5019 symbol (), adjacent to the TERMINAL;
- Identification of Terminals for connection to the main supply near the terminal block;
- Symbol $\Delta \Delta$ to indicate of the use of the wires that have a higher rating than 60°C in the instruction manual.
- Field-wiring terminal markings "Use copper conductors only"