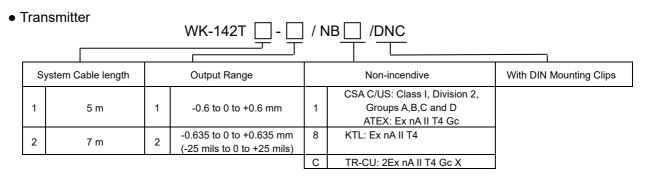
WK SERIES
TRANSMITTER
SPECIFICATIONS

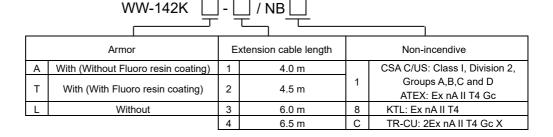
## WK-142T 2-WIRE THRUST TRANSMITTER

**( €** Page 1 of 2

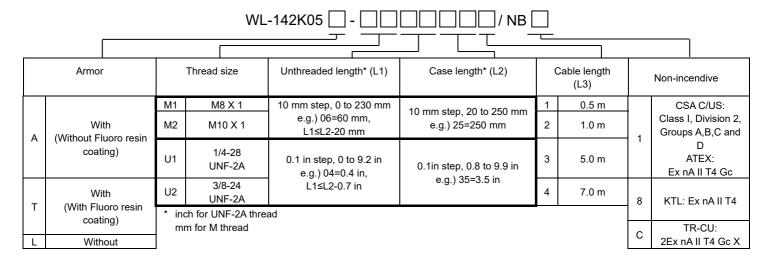
Model Code / Additional Spec. Code( No entry if additional spec. code is not specified. )



#### Extension Cable



#### Sensor



	,	WL-142K05R		] / NE	3 <u>U</u>			
Thread size		Unthreaded length*	Case length*	Ca	Cable length(L3)		Non-incendive	
M2	M10×1	05=5mm	03=30mm	1	0.5 m		CSA C/US: Class I, Division 2, Groups A,B,C and D ATEX: Ex nA II T4 Gc	
U2	3/8-24 UNF-2A	02=0.2inch	12=1.2inch	2	1.0 m	] 1		
* inch for UNF-2A thread					5.0 m	8	KTL:Ex nA II T4	
mr	n for M thread		4	7.0 m	С	TR-CU: 2Ex nA II T4 Gc X		

WK SERIES TRANSMITTER SPECIFICATIONS

# WK-142T 2-WIRE THRUST TRANSMITTER

**( €** Page 2 of 2

	SPECIFICATIONS	NOTICE				
4 to 20mA OUTPUT RANGE	Current Output  -0.6 to 0 to +0.6 mm or -0.635 mm to 0 to +0.635 mm (-25 mils to 0 to +25 mils)	1. CALIBRATION MATERIAL MODEL WK-142T 2-wire Thrust Transmitters are calibrated with JIS SCM440 (AISI 4140 equivalent) flat surface (more than 15 mm dia.). It is not calibrated with any other target.  2. CONNECTOR ISOLATION, etc. The connector connecting the sensor cable and the extension cable shall be insulated with the attached insulation sleeve (transparent shrink tube) or fluoro resin insulation tape. The vinyl-insulating tape shall not be used, which may cause the wiring trouble in the case of the temperature more than 80 °C. The connector shall not be located in the oil environment. The oil penetration to cable through the connector may cause the sensitivity change, due to the change of the cable capacitance.  3. MEGGER TEST OF SIGNAL CABLE If megger test is made on the signal cable (2-wire shielded cable), be sure to discharge the charged electric load before connecting the cable to transmitter. If this caution is not adhered the transmitter could be damaged.  4. WIRING BETWEEN GAP OUT TERMINAL AND EQUIPMENT a). Non-grounding type equipment Connect directly with coaxial cable within 3 meters long. b). Grounding type equipment Use an isolator between the transmitter and the equipment. Use coaxial cable within 3 meters long between the transmitter and the isolator.  5. SENSOR INSTALLATION Not available for rainwater at out door use. It may cause the sensitivity change and insulation down.  6. The instructions manual contains important information such as conditions necessary for safe handling of the system. Such information and conditions are important and indispensable for ensuring safety. Therefore, be sure to read the instructions manual thoroughly before handling the system.				
4 to 20mA OUTPUT CONVERSION ACCURACY MAX. LOAD REGISTANCE NOT-OK FUNCTION	±1.0 % of Full Scale Range (From test signal input pin to current output)  43.5 × (Vps-12) ( (Vps=Power supply voltage)  Current output : 3.6 mA or less. Not-OK condition : Open or short of sensor, Outside of linear range. Delay time to resume ; 2 to 3 seconds after Not-OK condition is removed.					
CALIBRATION MATERIAL LINEAR RANGE* SCALE FACTOR* SCALE FACTOR ERROR* LINEARITY* OUTPUT IMPEDANCE*	GAP Output  JIS SCM440 FLAT (AISI 4140 equivalent )  1.4 mm (Gap : 0.3 to 1.7 mm)  7.87 mV/ $\mu$ m  7.87 mV/ $\mu$ m ±6.5 % typ. (including interchangeability errors) Step : 200 $\mu$ m, Target : 30 mm dia.  Within ±28 $\mu$ m (typ.) of 7.87 mV/ $\mu$ m straight line (including interchangeability errors)  10 k $\Omega$ (It is calibrated load impedance at 10 M $\Omega$ )					
TEMPERATURE RANGE OF TRANSMITTER TEMPERATURE RANGE OF SENSOR AND EXTENSION CABLE RANGE OF	System  Operating : 0 to 70 °C(32 to 158 °F) Storage : -34 to +100 °C(-29 to +212 °F)  Operating : -34 to +177 °C (-29 to +350 °F)					
TEMPERATURE AT EXPLOSION PROOF CONSTRUCTION RELATIVE HUMIDITY	0 to +70 °C (Sensor, Ext. Cable & Transmitter)  95 %RH (non condensing)					
POWER SUPPLY VOLTAGE SENSOR TIP	12 to 35 VDC  Approx. 5.5 mm (0.217 inch) dia.					
DIAMETER CABLE DIAMETER CONNECTOR DIAMETER SYSTEM CABLE	Approx. 2.7 mm (0.106 inch) dia. Approx. 7.1 mm (0.280 inch) dia.  5 m or 7 m					
TRANSMITTER SIZE  *The above specificatic SCM440 (AISI 4140 ed	(L) 100 mm × (W) 74 mm × (H) 50 mm (3.94 in) (2.91 in) (1.97 in) Mass : Approx. 530 g (1.2 lb) ons apply at 25 °C with 24 VDC power supply and quivalent) steel flat target.					

### **CONFIGURATION**

