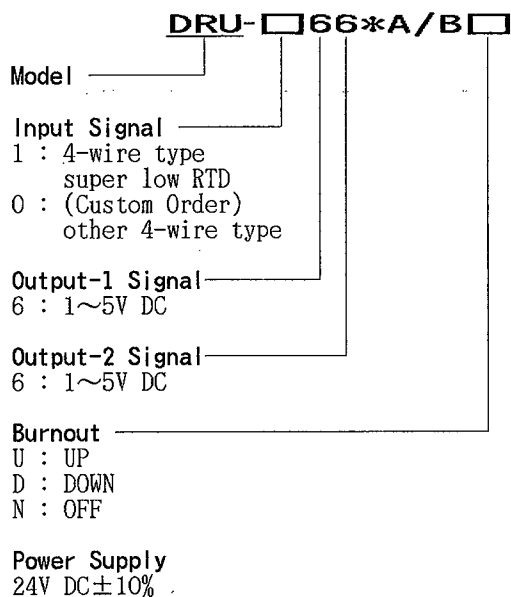


General Specifications

DRU
Super Low Temperature
Transmitter
(μ P Built-in Type)

JUXTA

This Super Low Temperature Transmitter is used in combination with 4-wire type (platinum-cobalt thin alloy) super low RTD (YOKOGAWA J263*B) and make precise measurement from super low temperature upto normal temperature and converts the temperature into voltage signal.

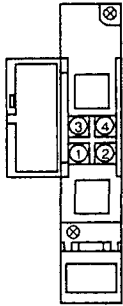
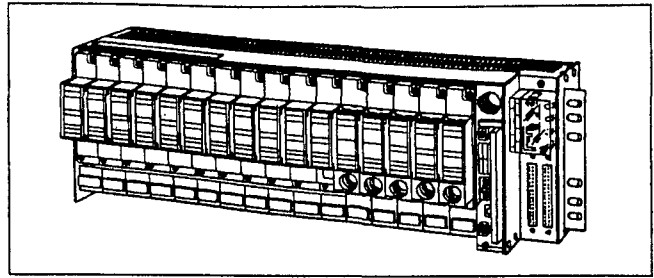


ORDERING INFORMATION	
● Model Code	: (Example) DRU-166*A/BU
● Range	: (Example) 10~110K

Input & Output	
Input Signal	: YOKOGAWA J263 B RTD (platinum-cobalt thin alloy)
Measuring Range	: As per YOKOGAWA J263*B RTD Table
Input Resistance	: 1M Ω (3k Ω when power off)
Zero Elevation	: Within 5 times of span
Span	: Standard span is more than 10 $^{\circ}$ C
Input Conductor Resistance	: Less than 50 Ω per line (whereas resistance values of each line should be equal)
Output-1 Signal	: 1~5V DC
Output-2 Signal	: 1~5V DC
Permissible Load Resistance	: More than 2k Ω for both Output-1 and Output-2
Zero Adjust Range	: \pm 1% of span (input adjustment) \pm 10% of span (output compensation)
Span Adjust Range	: \pm 1% of span (input adjustment) \pm 10% of span (output compensation)
Standard Performance	
Accuracy Rating	: Output-1 : \pm 0.1% of span or \pm 0.3 $^{\circ}$ C whichever greater (including linearized error) Output-2 : Relative error for Output-1 is less than \pm 0.2%
Response Speed	: 200ms 63% response (10~90%)
Burnout	: Specify UP, DOWN or OFF Burnout time is less than 60 seconds
Insulation Resistance	: More than 100M Ω (500V DC) between input~output~power supply (output-1 and output-2 are not insulated)
Withstand Voltage	: 1500V AC/minute between input~output~power supply 500V AC/minute between output~power supply
Temperature Range	: 0~50 $^{\circ}$ C
Humidity Range	: 5~90% RH (no condensation)
Power Voltage	: 24V DC \pm 10% (ripple content is less than 5%p-p)
Effect of Wiring Resistance	: Wiring resistance unbalanced error per 10 Ω is 0.01 $^{\circ}$ C
Effect of Power Voltage Fluctuation	: Less than \pm 0.1% of span for fluctuation of 24V DC \pm 10%
Effect of Ambient Temperature Change	: Less than \pm 0.2% of span for change of 10 $^{\circ}$ C
Current Dissipation	: 24V DC 70mA
Mounting, Shape & Accessories	
Materials	: Case ABS plastic
Mounting Method	: Store in exclusive nest (Signal-power supply are connected through back board and connector)
Wiring	: (External Wiring) Connect to exclusive nest input/output and transmitter front M4 screw terminals (Connection to DCS I/O card) Connect to exclusive cable connector through nest
External Dimension	: 130.6x23.6x126mm (HxWxD)
Weight	: About 150g
Accessories	: Tag Number Label 1 Range Label 1

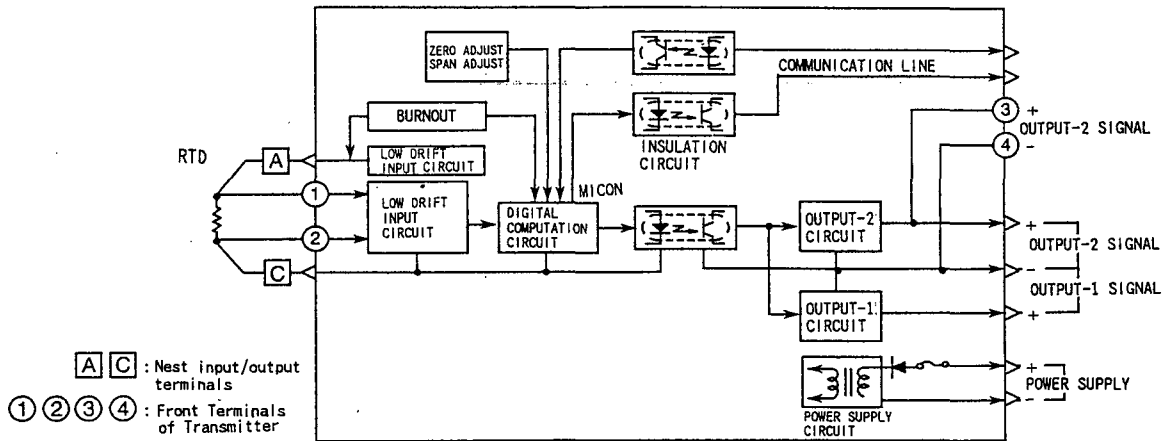
TERMINAL ARRANGEMENT

NEST INPUT TERMINAL			TRANSMITTER FRONT TERMINAL			
A	B	C	1	2	3	4
+		-	+	-	+	-

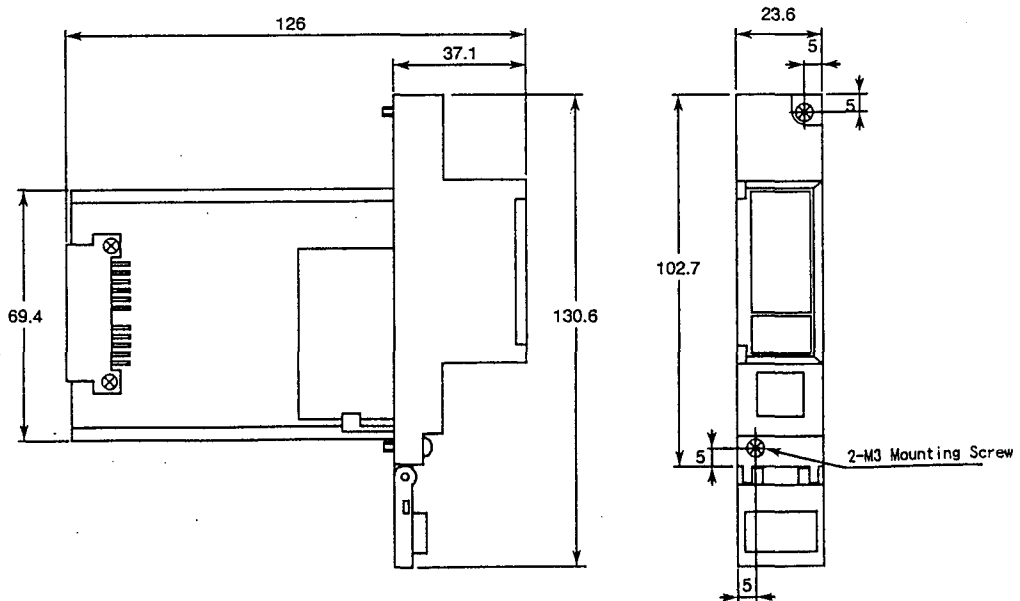


TML	SIGNAL	
1	INPUT	(+)
2	INPUT	(-)
3	OUTPUT-2	(+)
4	OUTPUT-2	(-)

BLOCK DIAGRAM



EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance