


TRANSMITTERS

#1	DESCRIPTION [8-14 through 8-17]			8H 
8	Transmitter (Add "R" for DIN rail style for transmitter)			
#2	TYPE OF TRANSMITTER	I/O ISOLATION	SUPPLY VOLTAGE	
H	Standard	1000 VAC	12 to 35 VDC	
I	Hart Protocol	2500 VAC	11 to 30 VDC	
E	Intrinsically safe	2500 VAC	11 to 30 VDC	
D	Intrinsically safe/Hart Protocol	2500 VAC	11 to 30 VDC	
N	Non-isolated			
X	Other, specify			
#3	INPUT			
J	Iron/Constantan thermocouple	N	Nicrosil/Nisil thermocouple	
T	Copper/Constantan thermocouple	C	Tungsten 5% Rhenium/Tungsten 26% Rhenium T/C	
K	Chromel/Alumel thermocouple	2	100Ω, Platinum, a=0.00385, RTD, 2 Wire	
E	Chromel/Constantan thermocouple	3	100Ω, Platinum, a=0.00385, RTD, 3 Wire	
S	Platinum 10% Rhodium/Pure Platinum thermocouple	4	100Ω, Platinum, a=0.00385, RTD, 4 Wire	
R	Platinum 13% Rhodium/Pure Platinum thermocouple	X	Other, specify	
B	Platinum 6% Rhodium/Platinum 30% Rhodium T/C	Z	N/A	
#4	TEMPERATURE RANGE			
_ to _ °C	List desired temperature span	X	Other, specify	
_ to _ °F	List desired temperature span	Z	N/A (customer to span)	
#5	OUTPUT			
1	1 to 5 VDC	F	Fieldbus	
4	4 to 20 mA	X	Other, specify	
P	Profibus			
#6	SOFTWARE & CABLES INCLUDED?			
A	Yes			
Z*	No *Standard for I, E, & D type transmitters.			
#7	PLUG IN INDICATION			* Only available with "puck" style models I, E, or D in selection #2.
P*	Yes		Z No	
#8	OPTIONS & HOUSINGS (Leave blank if none)			
L	Aluminum with hinged cover NEMA 4 (6L)			
I	Aluminum, NEMA 4X, FM, CSA, IP66 (6IA)			
M	Aluminum with screw cover and chain NEMA 4 (6M)			
C	Calibration at 3 points			

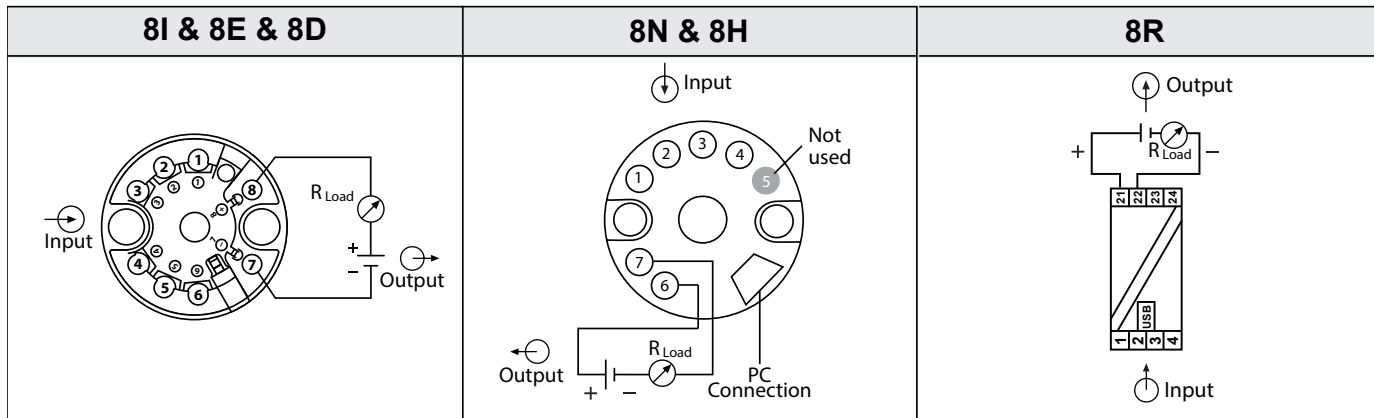


Note: DIN rail style(8R) available for all isolated transmitter types.



See Heads section on page 1-7 for additional options

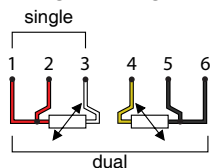
TRANSMITTER WIRING DIAGRAMS



Notes:

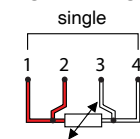
- Dual RTD input is not available for all transmitters.
- Some terminals will not be used as shown.
- Contact JMS for additional wiring diagrams not shown.

RTD 3-WIRE CONNECTION

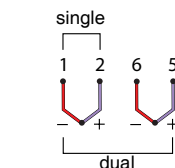


(Dual input not available for 8H, 8N or 8R)

RTD 4-WIRE CONNECTION



THERMOCOUPLE



(Dual input not available for 8H, 8N or 8R)

ADDITIONAL TERMINATIONS

COLD END TERMINATION [SEE SECTION 6] Choose as many as applicable (JMS part number prefixes are shown in parenthesis)

Connectors

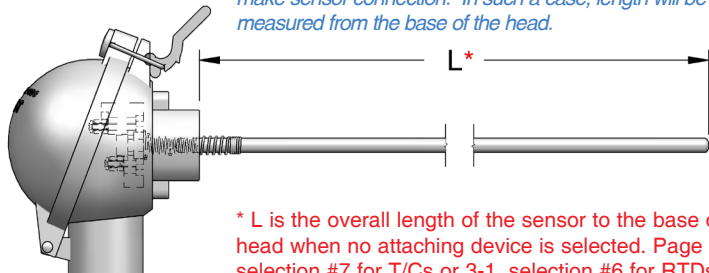
Plugs		Jacks	
B	Miniature plug (6A1B)	D	Miniature jack (6A1D)
BH	Miniature high temperature plug (6A2B) <800°F	DH	Miniature high temperature jack (6A2D) <800°F
C	Standard plug (6A1C)	E	Standard jack (6A1E)
F	Standard high temperature plug (6A2C) <800°F	G	Standard high temperature jack (6A2E) <800°F
WM	Microphone style plug (6DA)	WF	Microphone style jack (6DA)
WA	Solid pin plug, heavy duty (6A3C)	WB	Solid pin jack, heavy duty (6A3E)
WC	Jab in plug (6A4C)	WD	Jab in jack (6A4E)
WE	Ultra high temperature plug, glazed (6A5C) <1200°F	WG	Ultra high temperature jack, glazed (6A5E) <1200°F
WH	Ultra high temperature plug, unglazed (6A7C) <1200°F	WI	Ultra high temperature jack, unglazed (6A7E) <1200°F
WJ	Low noise plug (6A6C) <425°F	WK	Low noise jack (6A6E) <425°F
WL	DIN-IEC microphone plug (6DB)	WN	DIN-IEC microphone style jack (6DB)
V	Molded/water resistant plug (6DC)	VF	Molded/water resistant jack (6DC)
Y	M12 Male connector (6DY)	YF	M12 Female connector (6DY)
WQ	Miniature locking plug (6A8B2)	WR	Miniature locking jack (6A1DL2)
WS	Standard plug, locking (6A8C2)	WT	Standard jack, locking (6A8E2)

Heads [6-1] Visit www.JMS-SE.com/headspecs

Explosion Proof	
I	Aluminum, NEMA 4X, FM, CSA, IP68 (6IA)
J	316 stainless steel, NEMA 4X, FM, CSA, IP68 (6ISS)
P	Aluminum, NEMA 4X, FM, CSA, ATEX, IECEx, IP68 (6IAIEC)
U	316 stainless steel, NEMA 4X, ATEX, IP68 (6ISSATEX)
SI	Cast Iron, NEMA 3, 4, UL, CSA (6I)
GA	Aluminum, screw cover w/ indicating window, NEMA 4X, ATEX, IECEx, FM, CSA, IP68 (688A1)
GS	316SS, screw cover w/ indicating window, NEMA 4X, ATEX, IECEx, FM, CSA, IP68 (688S1)

General Purpose	
L	Aluminum w/ hinged cover (6L)
M	Aluminum w/ screw cover & chain (6M)
R	Aluminum w/ hinged high dome cover (6R)
N	Cast Iron w/ screw cover (6N)
Q	Black plastic (6Q)
SS	316 stainless steel w/ screw cover & chain (6SS)
WP	White plastic, screw cover, Sanitary (6WP)
SB	Nickel plated, cylinder style, 1/4" NPT (6S250)
SD	Nickel plated, cylinder style, 1/8" NPT (6S125)
SC	Stainless steel, socket cap style
ST	Molded plastic, mini head, 1/4" NPT, < 350F (6T)
SU	Molded plastic, mini head, 1/4" NPT, < 800F (6U)

Some applications may have pre-existing threaded pipes or protection tubes where no attaching device is needed to make sensor connection. In such a case, length will be measured from the base of the head.



* L is the overall length of the sensor to the base of the head when no attaching device is selected. Page 1-1, selection #7 for T/Cs or 3-1, selection #6 for RTDs.

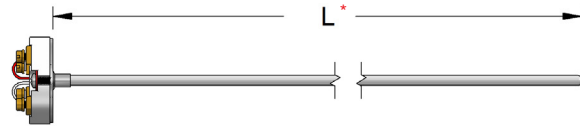
Transmitters [8-1 to 8-3]

Notes: - Add span range after transmitter selection. Example: 8H(0-200C).
 - Transmitter output = 4 - 20 mA. (See section 8 for other options).

8H	Isolated transmitter	8PA	Explosion proof, IP66/IP68, NEMA 4X, ATEX/IECEx, FM/CSA, Aluminum, threaded cap with glass viewing window, touch programmable [8-2]
8N	Non-isolated transmitter		
8I	Hart Protocol	8PS	Explosion proof, IP66/IP68, NEMA 4X, ATEX/IECEx, FM/CSA, 316 SS, threaded cap with glass viewing window, touch programmable [8-2]
8E	Intrinsically safe		
8D	Hart/Intrinsically safe		
8M	Integral transmitter (see page 3-5)		RTDs ONLY

Other

A	Bare ends		
K	Spade lugs (6SL)		
RL	Ring lugs (6RL)		
O	Open ceramic terminal block, brass screw terminal (6B)		
OA	Open Bakelite terminal block, nickel plated screw terminal (6BB)		
OB	Open ceramic terminal block for sensors with bayonet style connection, brass screw terminal (6B or 6C)		
OG	Ceramic terminal block, brass screw terminal (6G)		
OP	Pluggable polyimide terminal block, nickel plated screw terminal (6PT)		
OS	Open ceramic terminal block, nickel plated solder terminal (6C)		
CG	Cord connector/grip, aluminum 1/2" NPT (6CC)		
TB	Conduit bushing, 3/4" NPT male X 1/2" NPT female, plated steel (6IRB)		
X	Other, specify		



* L is the overall length of the sensor to the base of the terminal block mounting plate when open terminal block cold end termination is selected without a fixed attaching device. Page 1-1, selection #7 for T/Cs or 3-1, selection #6 for RTDs.