

JASS International FZE

UPDATED June 2014

Options Catalogue for Thermocouple & RTD Assemblies

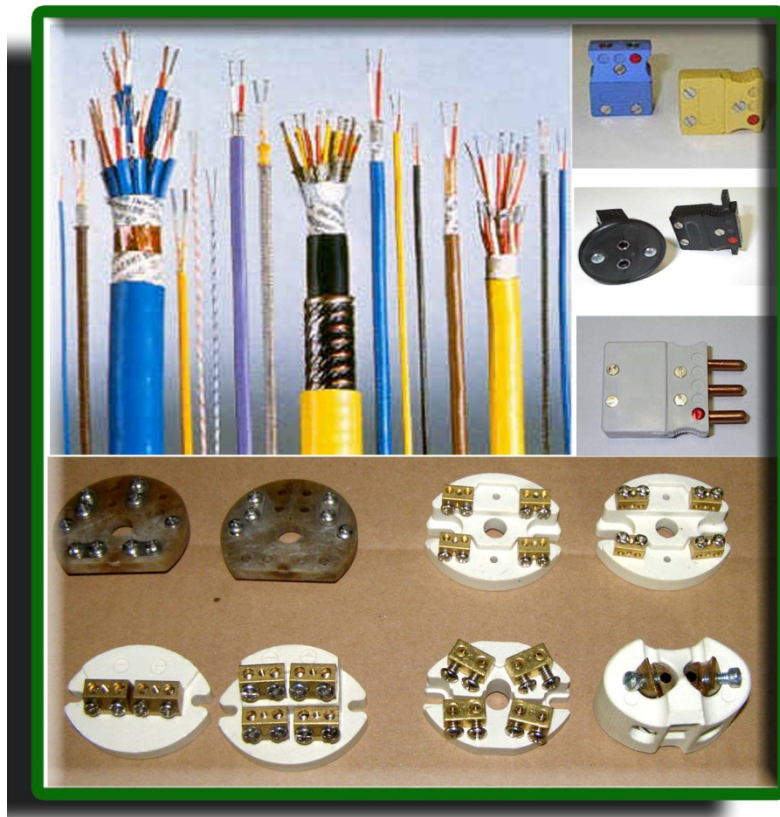
The following pages contain a number of Options that will allow you to custom design your own sensor to fit your specific application.

As an Example: You have a large motor and would like to measure the temperature in a hard to reach area; you would also like to have a transmitter.

- | | |
|---|---------------------------|
| 1) First pick out the sensor you need | JTSI-FKC12.00C120 |
| 2) Next you need to hold this in place with a fitting | CF = (1/4" x 1/4"NPT) |
| 3) Next you will need a remote mounted head | HB = (Cast Aluminum Head) |
| 4) And finally you will need the Transmitter | TX = (Transmitter) |

The final P/N will be **JTSI-FKC12.00C120-CF-HB-TX**, this will describe exactly what you need we at JASS International will make the necessary modification to put it all together.

In the example the HB option normally comes with a terminal block but because you need a transmitter the terminal block will be replaced with a transmitter mounting plate as well as a CGB fitting mounted on the end of the lead wire to hold the head.



Option Code	Description	Can be used on the Following
-------------	-------------	------------------------------

Armour can be added to the leadwire to give added physical protection, it also offers some shielding to RF noise if the armour is grounded at one end

Note: PVC covered armour can take only a single circuit

AA	Armour stainless steel PVC covered	T/C & RTD
AB	Armour stainless steel	T/C & RTD
AC	Armour stainless steel TEFLON covered	T/C & RTD

Ageing of thermocouple cable is usually only done on type "K" to minimize the Drift at high temperatures. To minimize the Drifting even more the sensor should be ungrounded and should have an Inconel-600 sheath

AG	<i>Ageing the first 48" for 50 hours @ 1,800⁰ F to limit drifting LOT CHARGE</i>	T/C Only
AK	Adds Kapton Tap over Sensor	T/C & RTD
AT	Adds TEFLON Tap over sensor	T/C & RTD
AU	Adds Very Heavy TEFLON Tap over sensor / Pad Hydro Que	T/C & RTD

Connectors can be added to the end of leadwires with or without Armour

BA	BX connection	T/C & RTD
BB	CGB Fitting 1/2"NPT Sized to fit the wire	T/C & RTD
BC	WIRES TO BE STRIPPED WITH BARE ENDS	T/C & RTD
BD	CORD GRIP 1/2"NPT Sized to fit the wire	T/C & RTD
BE	BARE BEADED ELEMENT, Replacment element Bare wires no beads	T/C Only
BF	FITTING TO BE POTTED TO WIRES OR ARMOUR MAKING IT GAS TIGHT	T/C & RTD
BG	LAST 6" of Bead T/C will be a smaller AWG wire Normally 14 AWG	T/C Only
BH	Brazing Hi-Temp 1900 deg F	T/C Only
BJ	BAYONET 1/8" SP. LD ADAPTER SEE "GBAA"	T/C Only
BK	BAYONET 1/16" SP. LD ADAPTER SEE "GBAA"	T/C Only
BL	BELL REDUCER FEMALE 1/2" X 1/8" NPT Included as part of the X length X length = Nipple Union Nipple and BELL Reducer	T/C & RTD
BM	BELL REDUCER MALE 1/2" X 1/8" NPT Included as part of the X length X length = Nipple Union Nipple and BELL Reducer	T/C & RTD
BW	Welded Not Brazed	T/C Only
BL	Bend Left, see option SO and Coiling drawing , used on pad type T/C	T/C Only
BR	Bend Right, see option SO and Coiling drawing , used on pad type T/C	T/C Only

Compression Fittings are used to hold the sensor into the process,
P/N at end of description is for ordering just the compression fitting
FOR 2 OR MORE COMPR. FITTINGS ON SAME SENSOR PUT QTY IN
BRACKETS AFTER OPTION CODE "-CJ(2)" = 2 PIECES INSTEAD OF 1

C1	Compression Fitting ST.ST	bore =.062 1/8"NPT	T/C
C2	Compression Fitting ST.ST	bore =.062 1/4"NPT	T/C
C3	Compression Fitting ST.ST	bore =.125 1/8"NPT	T/C & RTD
C5	Compression Fitting ST.ST	bore = 3mm 1/4"NPT	T/C & RTD
C6	Compression Fitting ST.ST	bore = 4mm 1/4"NPT	T/C & RTD
C7	Compression Fitting ST.ST	bore = 5mm 1/4"NPT	T/C & RTD
C8	Compression Fitting ST.ST	bore = 6mm 1/4"NPT	T/C & RTD
CA	Compression Fitting ST.ST	bore =.125 1/4"NPT	T/C & RTD
CB	Compression Fitting BRASS	bore =.125 1/4"NPT	T/C & RTD
CC	Compression Fitting ST.ST	bore =.125 1/2"NPT	T/C & RTD
CD	Compression Fitting ST.ST	bore =.188 1/4"NPT	T/C & RTD
CE	Compression Fitting BRASS	bore =.188 1/4"NPT	T/C & RTD
CF	Compression Fitting ST.ST	bore =.188 1/2"NPT	T/C & RTD
CG	Compression Fitting BRASS	bore =.188 1/2"NPT	T/C & RTD
CH	Compression Fitting ST.ST	bore =.250 1/4"NPT	T/C & RTD
CI	Compression Fitting BRASS	bore =.250 1/4"NPT	T/C & RTD
CJ	Compression Fitting ST.ST	bore =.250 1/2"NPT	T/C & RTD
CK	Compression Fitting BRASS	bore =.250 1/2"NPT	T/C & RTD
CL	Compression Fitting ST.ST.	bore =.375 1/2"NPT	T/C & RTD
CM	Compression Fitting BRASS	bore =.375 1/2"NPT	T/C & RTD
CN	Compression Fitting ST.ST.	bore =.500 1/2"NPT	T/C & RTD
CO	Compression Fitting BRASS	bore =.500 1/2"NPT	T/C & RTD
CP	Compression Fitting ST.ST.	bore =.500 3/4"NPT	T/C & RTD
CQ	Compression Fitting ST.ST.	bore =.750 3/4"NPT	T/C & RTD
CS	SPECIAL S.S. Compr. Fitting 1/4 X 1/4"NPT TEFLON FERRULES		T/C & RTD
CT	SPECIAL S.S. Compr. Fitting 1/4 X 1/2"NPT TEFLON FERRULES		T/C & RTD
CvD	Callendar-van Dusen Calculation Alpha, Delta & Beta		RTD Only
CW	Sensor C/W Thermowell one drawing can have with & without well DWG# and -CW with length will give you the well only		T/C & RTD
CX	SPECIAL Compression Fitting AS PER CUSTOMERS ORDER		T/C & RTD
DA	RTD , 0.01%, or Thermocouple Special Limits of Error		RTD & T/C
DB	RTD Class "A" Bulb		RTD Only
DC	RTD , THIN FILM MAX 400C 100 OHM 0.0385		RTD Only
DH	RTD , High Vibration		RTD Only
DI	INVERTED BULB HIGH TEMP RTD ASSEMBLY		RTD Only
DO	Document Simple FIXED 1 point cert. 0⁰C		RTD Only
DP	Document Simple FIXED 2 point cert. 0⁰C & 100⁰C		RTD & T/C
DQ	Document 3 Point Certificate of Calibration Temp to be Specified		RTD & T/C

DS	Two independent sensors in the same potting adapter Normally 1/8" or 3mm Cable so that the total OD is less than .260"	RTD & T/C
EO	Element only on any Style or Drawing, Gives replacement sensor with any secondary hardware like springs etc.. that matches the original element built for that drawing	T/C & RTD
EOX	Element only with extra parts N.U.N Sp. Ld. Hex	T/C & RTD
EH	Element & Head (N.U.N.) ONLY on any Style or Drawing, That would come with a well	T/C & RTD
EL	Element assembly Less well If the assembly normally has a well this code will give you everything but the well	T/C & RTD
ET	Element & Thermowell adds a well to an assembly	T/C & RTD
ETW	Just the thermowell used when the customer wants to add a well after buying the sensor	T/C & RTD
EW	Adds TEFLON wire to Sensors with heads C/W CGB, sensor comes completely wired, Example: EW(600) 50ft. TEFLON wire	T/C & RTD

Floor flanges are used to mount sensors onto duck work

Raised face flanges are the same as the ones used on thermowells, it allows you to mount a protection tube or sensor directly onto a flange mount

FA	1/2"NPT Thrd floor flange, 4 hole type, used to mount sensor to air duck	T/C & RTD
FB	3/4"NPT Thrd floor flange, 4 hole type, used to mount sensor to air duck	T/C & RTD
FC	1/2"NPT 304ss 1 1/2" 150# RF Flange, used on sensors & protection tubes	T/C & RTD
FD	3/4"NPT 304ss 1 1/2" 150# RF Flange, used on sensor & protection tubes	T/C & RTD
FE	1/2"NPT 304ss 1 1/2" 300# RF Flange, used on sensor & protection tubes	T/C & RTD

FF	3/4"NPT 304ss 1 1/2" 300# RF Flange, used on sensor & protection tubes	T/C & RTD
FK	Field Cut-table sensor mounted in standard assemblies	T/C & RTD

The following list of head options can be used to custom design your sensors either with a head that is not shown in our standard catalogue or to design remote mounted sensors with the head at the end of the lead wires

HA	Head, Bakelite (1/2"NPT only) Black c/w terminal block	T/C & RTD
HB	Head, Cast Aluminum 1/2"NPT conduit c/w terminal block	T/C & RTD
HC	Head, Cast Aluminum 3/4"NPT conduit c/w terminal block	T/C & RTD
HC4X	Head, Cast Al. NEMA-4X 3/4"NPT conduit c/w terminal block	T/C & RTD
HD	Head, Cast Iron 1/2"NPT process c/w terminal block	T/C & RTD
HE	Head, Cast Iron 3/4"NPT process c/w terminal block	T/C & RTD
HF	Head, Delrin (1/2"NPT ONLY) Gray	T/C & RTD
HG	Head, Cast Aluminium Explosion proof, 1/2"NPT conduit, class 1&2 UL/CSA	T/C & RTD

HH	Head, Dual 3/4" NPT conduit , 1/2"NPT process Cl.I,Div.I,Grps. B,C&D, ATEX NEMA-4X	T/C & RTD
HH20mm	Head, Dual conduit , 1/2"NPT process Cl.I,Div.I,Grps. B,C&D, ATEX NEMA-4X Same as above but metric conduits	T/C & RTD
HI	Head, Standard Weatherproof (1/4"NPT ONLY)	T/C & RTD
HJ	Head, Hi-Temperature Weatherproof (1/4"NPT ONLY)	T/C & RTD
HK	Head, Micro Connector 1/16 to 1/4" Sheath Size	T/C & RTD
HL	Head, Hi-Temperature Micro Connector 1/16 to 1/4" Sheath Size	T/C & RTD
HM	Head, Polypropylene (1/2"NPT ONLY) White	T/C & RTD
HN	Head, 3 X 3/4" NPT conduit, CSA Cl.I Div.I Grps A,B,C&D WINDOW head.WHITE Replaces old Killark head	T/C & RTD
HO	Head Exp. Cl.1 Div.1 Grp. A,B,C and D Div.2 E,F and G	T/C & RTD
HP	Head BLUE Exp. Cl.1 Div.1 Grp. B,C and D Div.2 E,F and G Standard EXP. Head	T/C & RTD
HQ	Head, Stainless Steel 316SS 3/4"NPT conduit c/w terminal block	T/C & RTD
HR	Head, SMALL Stainless Steel 316SS 3/4"NPT conduit	T/C & RTD
HU	Head Exp. AEx d IIc, IP66 Cl.1 Div.1 Grp. A,B,C and D NEMA-4X	T/C & RTD
HV	Head Exp. Stainles steel Cl.1 Div.1 Grp. B,C and D NEMA-4X	T/C & RTD
HW45	Head with Window NEMA-4A CSA ATEX end of sensor	T/C & RTD
HW90	Head with Window NEMA-4A CSA ATEX Wall mount	T/C & RTD
HWD45	Head with Window DISPLAY NEMA-4A CSA ATEX end of sensor	T/C & RTD
HWD90	Head with Window DISPLAY NEMA-4A CSA ATEX Wall mount	T/C & RTD
HS	HEAT SINK COMPOUND small packet	T/C & RTD
HT	MAKE SENSOR FOR HI TEMP SEE LT & TT This option is used normally with drawings that could be built for hi or low temp.	T/C & RTD

Hose Clamps added to P/N or drawing

H1	Hose Clamp to fit 3/4"-1 1/2" SAE 36	T/C & RTD
H2	Hose Clamp to fit 1 1/4"-6" SAE 116	T/C & RTD
H3	Hose Clamp to fit 3"-11" SAE 188	T/C & RTD
H4	Hose Clamp to fit 8"-19" SAE 332	T/C & RTD
H5	Hose Clamp to fit 15"-30" SAE 332 x 2	T/C & RTD
H6	Hose Clamp to fit 25"-50" SAE 332 x 3	T/C & RTD
H7	Hose Clamp to fit 40"-70" SAE 332 x 4	T/C & RTD
H0	Special Hose Clamp to be specified on order or DRAWING	T/C & RTD
IT	Insulation tape -65 to 500 ⁰ F, Red, Self-Fusing, 7643a34	T/C & RTD

The following Jacks allow you to add a Standard, Hi-temp or 3 pole Jack to any sensor that uses a plug

Note: be sure to add the option for the plug so that they both match

JA	Jack, Standard 2-Pole (same calibration as sensor)	T/C only
JB	Jack, Hi-Temperature 2-Pole (same calibration as sensor)	T/C only
JC	Jack, Standard 3-Pole (same calibration as sensor)	T/C only
JD	Jack, Hi-Temperature 3-Pole (same calibration as sensor)	T/C only
JE	Jack, Mini 2-Pole (same calibration as sensor)	T/C only
JG	Jack, Standard 2-Pole (RTD)	RTD only

JH	Jack, Hi-Temperature 2-Pole (RTD)	RTD only
JI	Jack, Standard 3-Pole (RTD)	RTD only
JJ	Jack, Hi-Temperature 3-Pole (RTD)	RTD only
JM	Jack, Standard 4-Pole (RTD)	RTD only
JN	Standard Jack to Male Mini Plug 2 pole J & K only	T/C only
JO	Panel Jack RSC Style fits standard knockout	T/C only
KC	Color Code wires as per Customers Request	T/C & RTD
KW	Pack Nipple or N.U.N. with K-Wool to fill air gap in nipple	T/C & RTD
KS	SEAL WELD COLD END FOR LONG TERM STORAGE	T/C & RTD
LA	Adds LAG to well that's already on a drawing as a regular	T/C & RTD wells
LT	BUILD SENSOR FOR LOW TEMP UNDER 400 ⁰ F This is a cost saving option using wire instead of M.I. Cable see HT & TT	T/C & RTD
MA	Mounting plate for transmitter (STYLE # dictates type of mounting plate)	T/C & RTD
MH	Mounting plate for wall heavy duty SS	T/C & RTD
MS	Mounting plate for wall Standard	T/C & RTD
MI	MI. CABLE Used when offering two different styles of sensors on one drawing as in Tube Type VS MI. Cable or Beaded VS MI.	T/C & RTD
MP	MOUNTING PLATE Used when offering two different styles of sensors on one drawing Mounting plate is unique to each drawing	T/C & RTD

Add these different styles of hex nipples & hex plugs to any style # and create a unique sensor to solve your temperature measuring problems

NA	1/2" X 1/2" NPT slip-on spring loaded Hex Nipple for Cut-to-Length Sensors	T/C & RTD
NB	1/4"NPT X 1/2"NPT used to change size or add a Hex nipple to a STYLE #	T/C & RTD
NC	1/2"NPT X 1/2"NPT used to change size or add a Hex nipple to a STYLE #	T/C & RTD
ND	3/4"NPT X 1/2"NPT used to change size or add a Hex nipple to a STYLE #	T/C & RTD
NE	3/8"NPT X 1/2"NPT used to change size or add a Hex nipple to a STYLE #	T/C & RTD
NF	1"NPT X 1/2"NPT used to change size or add a Hex nipple to a STYLE #	T/C & RTD
NG	1/4"NPT HEX PLUG used to add a Hex Plug to any STYLE #	T/C & RTD
NH	1/2"NPT HEX PLUG used to add a Hex Plug to any STYLE #	T/C & RTD
NI	3/4"NPT HEX PLUG used to add a Hex Plug to any STYLE #	T/C & RTD
NJ	1"NPT HEX PLUG used to add a Hex Plug to any STYLE #	T/C & RTD
NT	<i>No Thermowell, used with drawings were the customer may have some of the wells already</i>	T/C & RTD
NW	WELD any HEX PLUG or HEX NIPPLE to cable Instead of BRAZING	T/C & RTD
NY	10mm x 1.5mm metric process connection x 1/2" NPT Hex nipple	T/C & RTD

OA	O-Ring for Explosion Proof Head	T/C & RTD

The following Plugs allow you to add a Standard, Hi-temp or 3 pole Plug to any sensor

PA	Plug, Standard 2-Pole (same calibration as sensor)	T/C only
PB	Plug, Hi-Temperature 2-Pole (same calibration as sensor)	T/C only
PC	Plug, Standard 3-Pole (same calibration as sensor)	T/C only
PD	Plug, Hi-Temperature 3-Pole (same calibration as sensor)	T/C only
PE	Plug, Mini 2-Pole (same calibration as sensor)	T/C only
PF	Plug, Hi-Temperature Mini 2-Pole (same calibration as sensor)	T/C only
PG	Plug, Standard 2-Pole (RTD)	RTD only
PH	Plug, Hi-Temperature 2-Pole (RTD)	RTD only
PI	Plug, Standard 3-Pole (RTD)	RTD only
PJ	Plug, Hi-Temperature 3-Pole (RTD)	RTD only
PM	Plug, Standard 4-Pole (RTD)	RTD only
PT	Protection tube replacement only includes fitting	T/C & RTD
RA	Ring Lugs (NOT THERMOCOUPLE GRADE)	T/C only
RB	Ring Lugs (THERMOCOUPLE GRADE SAME CALIBRATION AS SENSOR)	T/C only
RC	SPADE Lugs (NOT THERMOCOUPLE GRADE)	T/C & RTD

Use these reducers to help connect your sensor to existing fittings or connection on your process

RD	3/4" X 1/2"NPT Hex Reducing Bushings used between Process and nipple	T/C & RTD
RE	1" X 1/2"NPT Hex Reducing Bushings used between Process and nipple	T/C & RTD
RF	1 1/4" X 1/2"NPT Hex Reducing Bushings used between Process and nipple 4638K568	T/C & RTD
RG	1" X 3/4"NPT Hex Reducing Bushings used between Process and nipple 4638K662	T/C & RTD
RH	1 1/4" X 3/4"NPT Hex Reducing Bushings used between Process and nipple 4638K567	T/C & RTD
RI	1 1/2" X 3/4"NPT Hex Reducing Bushings used between Process and nipple 4638K573	T/C & RTD
RJ	2" X 3/4"NPT Hex Reducing Bushings used between Process and nipple 4638K582	T/C & RTD
RK	1/8" Male NPT to 1/4"FNPT Reducing Bushings used between Process and nipple or compr. fitting	T/C & RTD
RL	1/8" X 1/2"NPT Hex Reducing Bushings used between Process and nipple	T/C & RTD
RM	2" X 1"NPT Hex Reducing Bushings used between Process and nipple 4443K426	T/C & RTD
RT	Recessed tip normally used on beaded T/C but can be done on M.I. cable	T/C

RW	Rework Customers part or Modify a drawing all ready supplied	T/C & RTD
Special Items: Like Certificates, Mill Test Reports, Hi-temp potting, Stellite Coating, Painting or Springs		
SA	Seal, Fluid Type 1/2" x 1/2"NPT (50psi Max. 400 deg.F)	T/C & RTD
SB	Cover for pad type T/C's, can be used on flat or shell type	T/C Only
SC	CERAMA-DIP POTTING (HIGH TEMP. POTTING)	T/C Only
SD	Special Potting Adapter same DIA. as sheath (1/4" od. cable Only)	T/C & RTD
SE	Special Certificate of Calibration Points to be defined @ time of ordering	T/C & RTD
SF	NEOPREEN BOOTS 1 PAIR FITS PLUG & JACK 2 POLE STYLE	T/C
SG	Special Connector to be defined by customer before ordering	T/C & RTD
SH	CHAIN FOR EXP. HEAD	T/C & RTD
SI	Bend Sensor 45 ⁰ Give Distance from tip EX. -SI(5") or -SI(25")	T/C & RTD
SJ	Bend Sensor 90 ⁰ Give Distance from tip EX. -SJ(5") or -SJ(25")	T/C & RTD
SK	O-RING FOR EXP. HEAD	T/C & RTD
SL	Epoxy coating for heads	T/C & RTD
SLE	Change wire to Special Limits of Error	T/C Only
SM	Mill Test Reports on Cable or Wells (Customer to specify)	T/C & RTD
SN	Special METCO / STELLITE coating on well or Sensor	Wells Only
SO	Coiling of Cable for Expansion Loops (Define inside Dia. and # of Loops)	T/C & RTD
SP	Special PAINT or COATING instructions must be supplied @ time of ordering	T/C & RTD
SQ	Grounding Screw Needed In Head	T/C & RTD
SR	Tapered spring for 1/4" cable only (used to spring load T/C against some terminal block)	T/C & RTD
SS	Special Spring type strain relief, used on units with lead wires, mounts on potting adapter	T/C & RTD
ST	Copper TIP used on the end of 1/4" SENSORS in wells for Faster Response	T/C & RTD
SU	TIP SENSITIVE Thin Film RTD Tube type Max.Temp 400 ⁰ C	RTD
SV		
SW	Wire & Armour Pre-mounted to head add option & wire length in inches example: -SW(300") adds 25ft. of wire and armour	T/C & RTD
SX	DEFINED BY CUSTOMER AT TIME OF ORDER	T/C & RTD
SY	Probe or well to be TEFLON coated hi temp TEFLON shrink sleeve for probes 1.5mils Teflon for wells n959-203(Black)	T/C & RTD and WELLS

Terminal Blocks for T/C & RTD's

TA	T/C 2 POLE TERMINAL BLOCK	T/C Only
TB	T/C 4 POLE TERMINAL BLOCK	T/C Only
TC	T/C 6 POLE TERMINAL BLOCK	T/C Only
TD	RTD 2 Pole Terminal Block	RTD Only
TE	RTD 3 Pole Terminal Block	RTD Only

TF	RTD 4 Pole Terminal Block	RTD Only
TG	RTD 6 Pole Terminal Block	RTD Only
TH	RTD 8 Pole Terminal Block	RTD Only
TI	2 Pole CERAMIC Terminal Block has center hole	T/C Only
TJ	2 Pole CERAMIC Terminal Block FITS 8 AWG WIRE	T/C Only
TK	4 Pole CERAMIC Terminal Block has center hole	T/C Only
TL	4 Pole CERAMIC Terminal Block FITS 8 AWG WIRE	T/C Only
TT	MAKE SENSOR TUBE TYPE NO M.I. CABLE SEE HT & LT	T/C & RTD
TU	Transmitter GMP82700 12 T/C's, mV, 8 RTD's, Ohm Fully Isolated Fully Linearized Microprocessor based transmitter can be programmed with your lap top	T/C & RTD
TUH	HART PROTOCOL Transmitter GMP82700H 12 T/C's, mV, 8 RTD's, Ohm Fully Isolated Fully Linearized Microprocessor based transmitter can be programmed with your lap top	T/C & RTD
TV	Transmitter GMP82830R 100 □ DIN RTD ONLY Microprocessor based transmitter can be programmed with your lap top	RTD Was MP82800R
TW	Transmitter GMP82800 T/C & RTD's Microprocessor based transmitter can be programmed with your lap top	T/C & RTD
TX	Transmitter RT100 or TT100 as dictated by Style # and Calibration	T/C & RTD
TY	Transmitter GALM46R or GALM46T as dictated by Style # and Calibration	T/C & RTD
TZ	Transmitter Specified by Customer or Supplied by Customer @ time of Order	T/C & RTD

Unions & Brackets

UA	Union + Special 3/4"NPT solid nipple 3/4"mnpt x 1/4" FNPT(order comp. fitting separately)	T/C & RTD
UB	Union + Special 1"NPT solid 1"mnpt x 1/4"fnpt (order compr. fitting separately)	T/C & RTD
UE	Union, Explosion proof, complete with one galvanized nipple to fit	T/C & RTD
UF	Union, 3/4", complete with 1 reducer to 1/2" and 1 closed galvanized nipple	T/C & RTD
UG	Union, 1" npt complete with 1 reducer to 1/2" and 1 closed galvanized nipple	T/C & RTD
UN	Union, Standard, complete with one galvanized nipple to fit X dim.	T/C & RTD
UP	BOL-U-2.5-ASS U bolt for 2" pipe Allows head to be bolted to pipe	T/C & RTD
UQ	Union, CAM & GROOVE , QUICK RELEASE ACTION complete with galvanized nipple	T/C & RTD

When replacing Vapor tension thermometers with RTD's or Thermocouples use these options to match the size of the bulb so as to form a tight fit in the well. other material available contact factory

VA	5/16" X 3" solid bore st.st. bulb	T/C & RTD
VB	3/8" X 3" solid bore st.st. bulb	T/C & RTD
VC	1/2" X 3" solid bore st.st. bulb	T/C & RTD
VD	5/8" X 3" solid bore st.st. bulb	T/C & RTD

Wire for remote mounted sensors or to change a standard sensor in our catalogue to something more suited to your application

WA	Wire, T/C Grade Fiberglass with PVC covered armour	T/C Only
WB	Wire, T/C Grade Fiberglass with stainless steel armour	T/C Only
WC	Wire, T/Cn Grade Fiberglass with stainless steel over braid	T/C Only
WD	Wire, Extension Grade PVC insulated	T/C Only
WE	Wire, Extension Grade PVC insulated with PVC covered armour	T/C Only
WF	Wire, Extension Grade PVC twisted shielded copper drain	T/C Only
WG	Wire, Extension Grade TEFLON insulated	T/C Only
WH	Wire, T/C Grade TEFLON insulated PVC covered armour	T/C Only
WI	Wire, T/C Grade TEFLON insulated ST.ST. over braid	T/C Only
WJ	Wire, Thermocouple Grade Fiberglass	T/C Only
WK	Wire, Thermocouple Grade PVC /PVC	T/C Only
WL	Wire, Thermocouple Grade TEFLON insulated	T/C Only
WM	Wire, RTD , Teflon insulated with PVC covered armour	RTD Only
WN	Wire, RTD, Teflon insulated with stainless steel armour	RTD Only
WO	Wire, RTD, Fiberglass insulated	RTD Only
WP	Wire, RTD, Fiberglass insulated with stainless steel armour	RTD Only
WQ	Wire, Thermocouple Grade Fila flex Max. 1,400 ⁰ F 760 ⁰ C	T/C Only
WR	Wire, Thermocouple Grade Sila-flex Max 1,600 ⁰ F 871 ⁰ C	T/C Only
WS	Wire, Thermocouple Grade Cerama-flex Max 2,200 ⁰ F 1,204 ⁰ C	T/C Only
WT	Wire, RTD, Teflon insulated with stainless steel OVER BRAID	RTD Only
WU	T/C PVC COIL CORD RETRACTED 12" EXTENDED 5FT.	T/C Only

WV	RTD PVC COIL CORD RETRACTED 12" EXTENDED 5FT.	RTD Only
WW	WITH OUT WELL used when job has been quoted as a complete assembly	T/C & RTD
WX	Special wire	T/C & RTD
WZ	Supplies just the well for that specific drawing	T/C & RTD
	These Options are Specific to the drawing they appear on	
ZA	THIS OPTION IS SPECIFIC TO A SINGLE DRAWING	T/C & RTD
ZB	THIS OPTION IS SPECIFIC TO A SINGLE DRAWING	T/C & RTD
ZC	THIS OPTION IS SPECIFIC TO A SINGLE DRAWING	T/C & RTD

P.O. BOX 6574
DUBAI ,
UNITED ARAB EMIRATES
PHONE: 971-4-396-3718
FAX: 971-4-396-8741
E-MAIL: jassintl@emirates.net.ae