

## Thermocouple Assemblies Megopak Type

## Model Selection Guide

### Instructions

- Select the Key Number desired. The arrow to the right marks the selections available.
- A dot denotes unrestricted availability. A letter denotes restricted availability. Restrictions follow Table VIII.
- A complete Model Number must have the designated number of digits in each table.

(Opt.)

| Key Numbers | I | II | III | IV   | V  | VI | VII  | VIII   | IX |
|-------------|---|----|-----|------|----|----|------|--------|----|
| 002K        | 2 | M  | 14  | R120 | 08 | R  | A120 | 5W2P16 | T  |

Example

| KEY NUMBER       |               | Selection | Availability |   |   |   |   |
|------------------|---------------|-----------|--------------|---|---|---|---|
| Megopak          |               | 002       | ↓            | ↓ | ↓ | ↓ | ↓ |
| Calibration Type | Pair of Wires |           |              |   |   |   |   |
| J                | 1             | J         | •            |   |   |   |   |
| K                | 1             | K         |              | • |   |   |   |
| T                | 1             | T         |              |   | • |   |   |
| JJ               | 2             | JJ        |              |   |   | • |   |
| Duplex KK        | 2             | KK        |              |   |   |   | • |

TABLE I - SHEATH DIAMETER

| Sheath Diameter |     | Approximate Wire Gage |   |   |   |   |   |
|-----------------|-----|-----------------------|---|---|---|---|---|
| In.             | mm  |                       |   |   |   |   |   |
| 0.062           | 1,6 | 28 to 30              | 1 | • | • | • | • |
| 0.125           | 3,2 | 23 to 24              | 2 | • | • | • | • |
| 0.188           | 4,8 | 19 to 20              | 3 | • | • | • | • |
| 0.250           | 6,4 | 16 to 18              | 4 | • | • | • | • |
| 0.375           | 9,6 | 14                    | 6 | • | • | • | • |

TABLE II - INSULATION

|                       |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|
| Magnesium Oxide (MgO) | M | • | • | • | • | • |
|-----------------------|---|---|---|---|---|---|

TABLE III - SHEATH MATERIAL

|                     |          |    |   |   |   |   |   |
|---------------------|----------|----|---|---|---|---|---|
| 316 Stainless Steel | Type 316 | 15 | • | • | • | • | • |
| Inconel Alloy 601   |          | 22 | • | • | • | • | • |

TABLE IV - HOT JUNCTION \*

|                                 |       |   |   |   |   |   |
|---------------------------------|-------|---|---|---|---|---|
| Remote (insulated)              | R _ _ | • | • | • | • | • |
| Integral (welded to sheath tip) | G _ _ | • | • | • | • | • |

NOTE: Price includes initial 6 inch (152 mm) length Megopak. For longer lengths, refer to Price Table A1

Element or assembly length in inch increments. 4" (102 mm) min. to 48" (1219 mm) max.

\* Exposed tip can be ordered on request

**TABLE V- COLD END TERMINATION - PRICE TABLE**

| RST                                |  | Selection | Availability |    |    |     |     |
|------------------------------------|--|-----------|--------------|----|----|-----|-----|
| Type                               | Conduit Outlet Size                            |           | 2J           | 2K | 2T | 2JJ | 2KK |
| Element Only                       | 2" (51 mm) Bared Wire Cold End                 | 20        | •            | •  | •  | •   | •   |
| Screw Cover Head                   | 1/2" (13 mm) Conduit                           | 03        | •            | •  | •  | •   | •   |
|                                    | 3/4" (19 mm) Conduit                           | 04        | •            | •  | •  | •   | •   |
| Aluminum Head                      | 1/2" (13 mm) Conduit                           | 17        | •            | •  | •  | •   | •   |
| Polypropylene Head                 | 1/2" (13 mm) Conduit                           | 18        | •            | •  | •  | •   | •   |
| Explosion Proof Head               | 3/4" (19 mm) Conduit                           | 19        | •            | •  | •  | •   | •   |
| Miniature Aluminum Connecting Head | 1/4" (6,4 mm) NPT Mounting Bushing             | 12        | g            | g  | g  |     |     |
| Miniature Terminal Block           | 1/4" (6,4 mm) NPT Mounting Bushing             | 14        | g            | g  | g  |     |     |
| Quik-Konnect                       | Plug   | 05        | g            | g  | g  |     |     |
|                                    | Jack   | 06        | g            | g  | g  |     |     |
| Insulated Wire Extension           | Plain  | 08        | •            | •  | •  | •   | •   |
|                                    | With Armored Tubing                            | 09        | •            | •  | •  |     |     |
|                                    | With Armored Tubing and Junction Box Conductor | 10        | •            | •  | •  |     |     |

**TABLE VI - MOUNTING ATTACHMENT**

| Type                       | Material            |   |   |   |   |   |   |
|----------------------------|---------------------|---|---|---|---|---|---|
| No Selection               |                     | 0 | • | • | • | • | • |
| Compression Fitting        | Brass               | R | • | • | • | • | • |
|                            | 316 Stainless Steel | S | • | • | • | • | • |
| Adjusting Compression Ftg. | 304 Stainless Steel | T | • | • | • | • | • |

**TABLE VII - WIRE EXTENSION TERMINAL**

|   |         |  |   |   |   |   |
|---|---------|--|---|---|---|---|
| No Selection                                      | 000     | •  | • | • | • | • |
| No End Terminals - wires bared 0.5 inches (13 mm) | A _ _ _ | k  | k | k | k | k |
| <b>NOTE: Refer to TABLE VIII for Pricing</b>      |         | Insulated wire extension length in 12" (305 mm) increments. 12" (305 mm) min. to 120" (3048 mm) max. |   |   |   |   |

**TABLE VIII - INSULATED EXTENSION WIRE - PRICE TABLE A1**

|                            |        |   |   |   |   |   |
|----------------------------|--------|---|---|---|---|---|
| No Selection               | 00000  | • | • | • | • | • |
| PVC Insulated Wire         | 1W2P6  |   |   | k |   |   |
|                            | 3W2P6  | k |   |   |   |   |
|                            | 5W2P16 |   | k |   |   |   |
| Glass Insulated Wire       | A0000  | r | r | r | r | r |
| Glass with Metal Braid     | J0000  | r | r | r | r | r |
| Glass with Flexible Armor  | R0000  | s | s | s | s | s |
| Teflon Insulated Wire      | C0000  | r | r | r | r | r |
| Teflon with Metal Braid    | L0000  | r | r | r | r | r |
| Teflon with Flexible Armor | T0000  | s | s | s | s | s |

\* Prices \*2 for duplex T/C

**TABLE IX - Sheath Coating**

|                      |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|
| No Selection         | 0 | • | • | • | • | • |
| Teflon Coated Sheath | T | • | • | • | • | • |

**RESTRICTIONS**

| Restriction Letter | Table | Available Only With |       | Not Available With |
|--------------------|-------|---------------------|-------|--------------------|
|                    |       | Selection           | Table | Selection          |
| <b>g</b>           |       |                     | I     | 06                 |
| <b>k</b>           | V     | 08, 09, 10, 15      |       |                    |
| <b>r</b>           | V     | 08, 09              |       |                    |
| <b>s</b>           | V     | 09, 10              |       |                    |

**Table A1 - Price Add U.S. \$.****Based on Sheath Diameter, Material and Length in 6" (152 mm) Increments.****(Tables I, III and IV are used in combination. Dependent on length in Table IV)**

| Table III Selection | Material | Table 1 Selection | 1                  | 2                  | 3                  | 4                  | 6                  |
|---------------------|----------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                     |          |                   | 0.062"<br>(1,6 mm) | 0.125"<br>(3,2 mm) | 0.186"<br>(4,8 mm) | 0.250"<br>(6,4 mm) | 0.375"<br>(9,6 mm) |
| 15                  | 316 SS   |                   |                    |                    |                    |                    |                    |
| 22                  | Inconel  |                   |                    |                    |                    |                    |                    |

**Duplex Elements 2JJ, 2KK - Price per 6" (152 mm) increments.**

|    |         |  |  |  |  |  |  |
|----|---------|--|--|--|--|--|--|
| 15 | 316 SS  |  |  |  |  |  |  |
| 22 | Inconel |  |  |  |  |  |  |

**Table B1 - Price Add U.S. \$.****Based on Sheath Diameter, Material and Length in 6" (152 mm) Increments.**

| Key Number | Material | Table 1 Selection | 1                  | 2                  | 3                  | 4                  | 6                  |
|------------|----------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|            |          |                   | 0.062"<br>(1,6 mm) | 0.125"<br>(3,2 mm) | 0.186"<br>(4,8 mm) | 0.250"<br>(6,4 mm) | 0.375"<br>(9,6 mm) |
| Any        | Teflon   |                   |                    |                    |                    |                    |                    |

**Table RST - Price Add U.S. \$ Based on Sheath Diameter in inches.****(Tables I and VI are used in combination).**

| Table VI Selection |  | Table 1 Selection | 1                  | 2                  | 3                  | 4                  | 6                  |
|--------------------|--|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                    |  |                   | 0.062"<br>(1,6 mm) | 0.125"<br>(3,2 mm) | 0.186"<br>(4,8 mm) | 0.250"<br>(6,4 mm) | 0.375"<br>(9,6 mm) |
| R                  |  |                   |                    |                    |                    |                    |                    |
| S                  |  |                   |                    |                    |                    |                    |                    |
| T                  |  |                   |                    |                    |                    |                    |                    |