



**INSTRUMENTS, INC.**

*INTRODUCING A NEW LINE OF:*

**PRECISION DIGITAL THERMOMETERS**  
**WITH J, K and T CALIBRATIONS**



**GENERAL SPECIFICATIONS**

**Measuring Range:**

**T type -392F to +752F (-200C to +400C)**

**K type -302F to +2498F (-150C to +1370C)**

**J type -212F to +2192F (-100C to +1200C)**

**Max ANSI error for all above calibrations +/- 0.2F (0.1C)**

**Max resolution (0.1) display values -99.9 deg to 999.9deg**

**Min resolution (1.0) display values -400deg to 2999deg**

**Environmental Operation:**

**Max Environmental operation -40F (-4C) to 140F(+60C)**

**Temperature offset error 25C(77F) reference 0.015deg/deg ----**

**Temperature span error 25C(77F) reference 0.03%/deg**

**Ideal as a secondary STANDARD**

**Special Environmental CALIBRATION available for WIDE  
ambient operation from -20C(-4F) to +50C(122F) :**

**Maximum combined SPAN and OFFSET error: +/- 0.25F(0.14C)**

**Calibrations available in deg F or C and T or K or J thermocouples**

REVISED 12-01-2014

**INSTRUMENTATION WITH QUALITY ENGINEERING**



**INSTRUMENTS, INC.**

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USA

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**TEMPERATURE MEASURING PRODUCTS**

**INDUSTRIAL GRADE  
PROCESS PROBES**

**HIGH ACCURACY "T" TYPE  
PROBE SPECIFICATIONS**

**PROBE STEM:** 1/4" or 3/16" Stainless Steel with  
T type thermocouple sensor Measuring  
Temperature range -200F to +500F

**HANDLE:** High Temperature plastic 350F max

**CABLES:** High temperature silicone plastic -  
rubber 350F max. Other constructions available  
SEE PG4

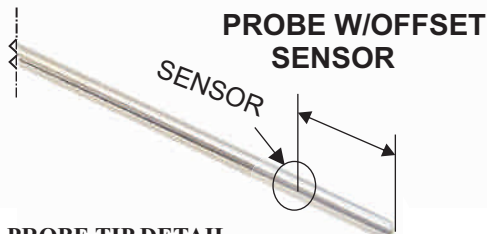
Measuring accuracy \*\* +/- 0.3F  
\*\* Permanently connected Probe -40F to 300F

MANY TYPES OF  
INTERCONNECTING  
PROBE CABLES  
SEE PG4

**1/4" DIA HARD STAINLESS STEM  
FOR PENETRATION OR  
IMMERSION PROBES 12 TO  
48 INCH LONG**

**5/32 OR 3/18" DIA HARD  
STAINLESS FOR LONGER  
PENETRATION OR  
IMMERSION PROBES**

**PENETRATION TIP TAPERS  
DOWN TO .125" FOR FAST  
RESPONSE**



**PROBE TIP DETAIL**  
SENSOR LOCATED AWAY FROM TIP END  
TO ALLOW THE PROBE TO REST ON THE  
BOTTOM OF THE KETTLE WITH OUT  
INTRODUCING MEASURING ERROR

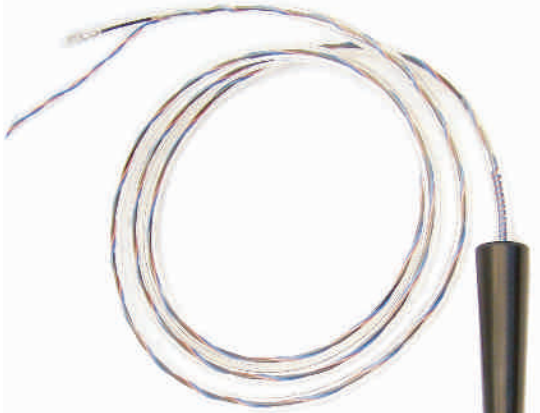
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# IMC'S "HAND-HELD" TEMPERATURE PROBES

TEFLON INSULATED WIRES  
WITH REINFORCING CORE

CABLES CONNECTING PROBE TO  
METER IN LENGTHS OF 3 TO 24FT

WATERPROOF PHENOLIC HANDLES RATED TO 300°F



CABLES SLEEVED  
WITH POLYURETHANE  
FOR TOUGHNESS OR  
SILICONE FOR HIGH  
TEMPERATURES

1/8" DIA HARD STAINLESS  
STEM FOR PROBES 6 TO  
8 INCH LONG

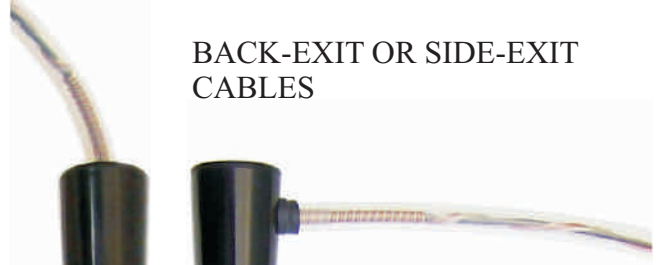
5/32 OR 3/18" DIA HARD  
STAINLESS FOR LONGER  
PENETRATION OR  
IMMERSION PROBES

1/4" DIA HARD STAINLESS STEM  
FOR PENETRATION OR  
IMMERSION PROBES 12 TO  
48 INCH LONG

PENETRATION TIP TAPERS  
DOWN TO .125" FOR FAST  
RESPONSE



DETACHABLE  
"TC" PROBES



BACK-EXIT OR SIDE-EXIT  
CABLES



STAINLESS  
ARMORED  
CABLES

HANDLES  
WITH PUSH  
SHOULDER



POINTED  
TIP FOR  
INSERTION  
EASE

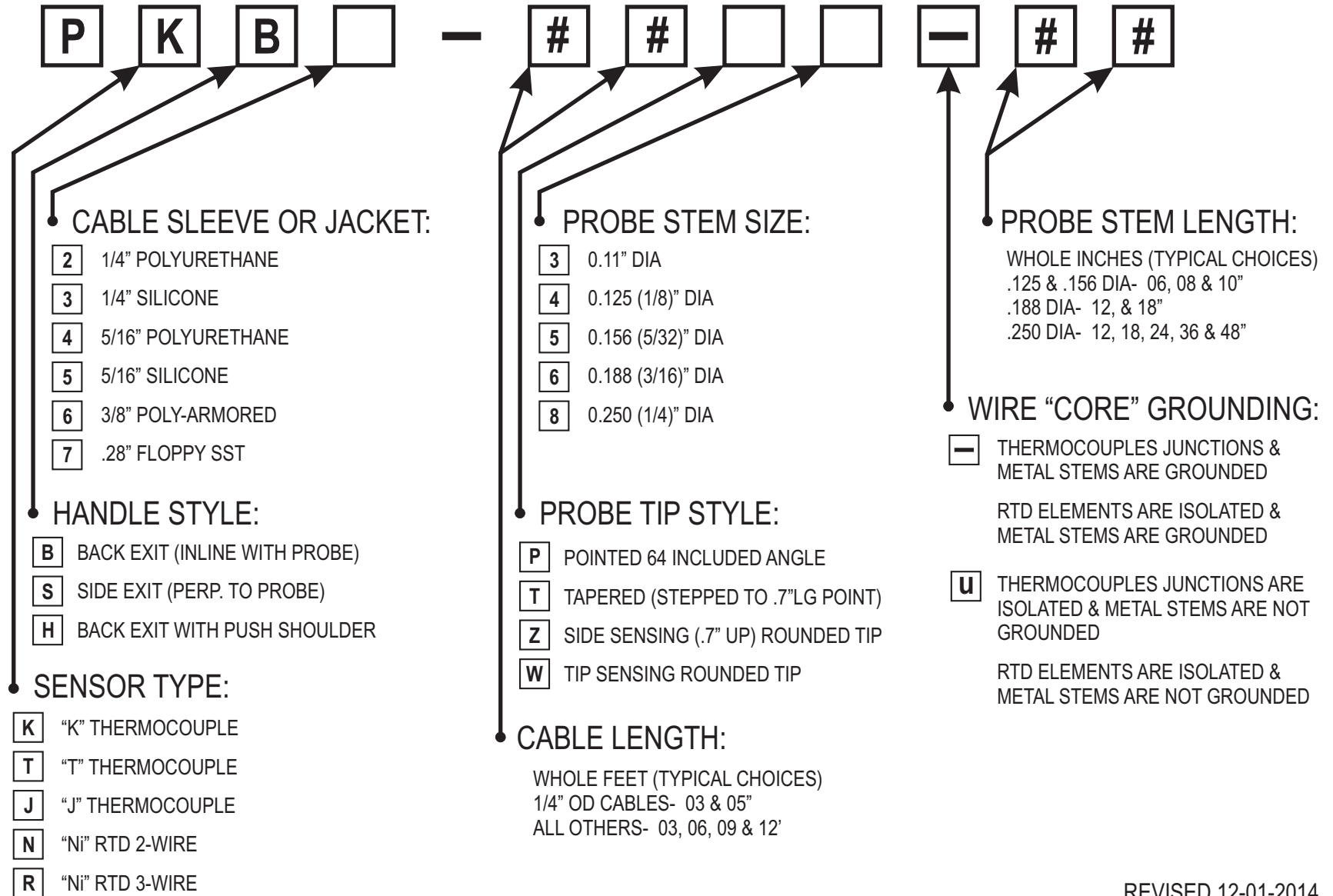
IMMERSION TIP IS ROUNDED  
WITH SENSING LOCATION  
AT THE TIP OR UP THE STEM

**FOR ORDERING INFORMATION SEE NEXT PAGE**

REVISED 12-01-2014

# BUILD YOUR OWN PROBE TO MEET YOUR NEEDS

## IMC'S HAND-USE PROBE NUMBERS FOR WALL-MOUNT METERS

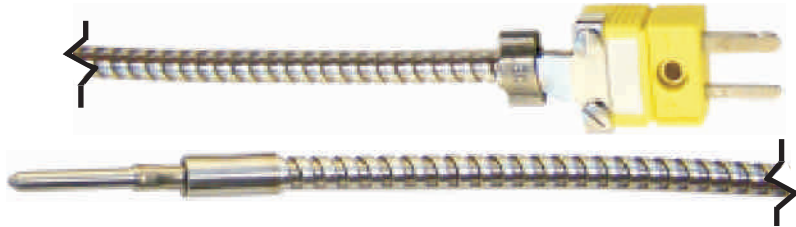


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**PERMANENT MOUNTED PROBES**

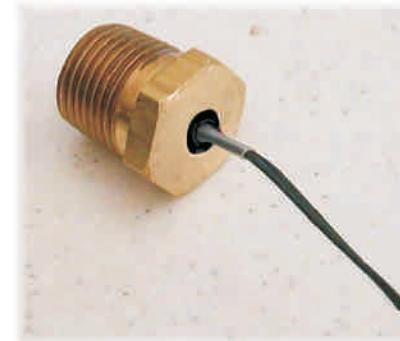
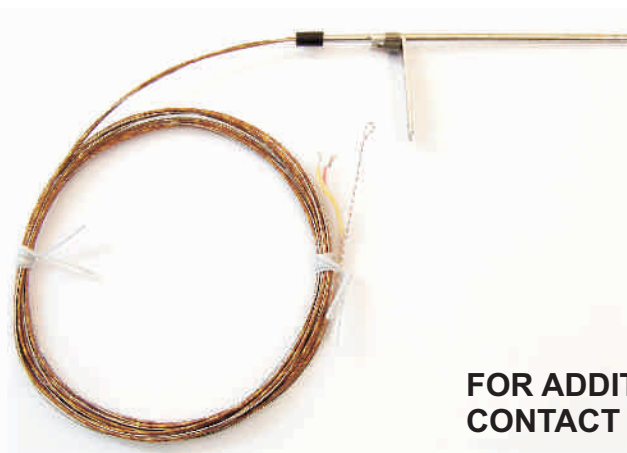
**OVEN MOUNTED PROBES  
(ie. BREAD AND PIZZA)**



**IMMERSION PROBES**



**WIRE PROBES**



**FOR ADDITIONAL PERMANENT MOUNTED PROBES PLEASE CONTACT THE FACTORY AT:**

**IMC INSTRUMENTS  
WITTENBERG , WI  
715 253 2801 OR  
715 445 4946**

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## ENCLOSURES



**NEMA 4X**



**NEMA 1**



**THIN WALL MOUNT ENCLOSURES**



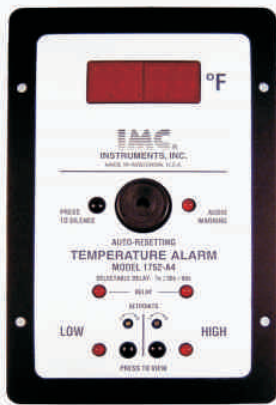
**PORTABLES**



**BENCH METERS**

## PANEL OR CABINET MOUNT ENCLOSURES

**STANDARD OR CUSTOM MONITORS & CONTROLS**



PANEL LAYOUT PR# SCHR-0022



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