

468 Liberty Drive Wittenberg, WI 54499 FAX 715- 253-2811

TEL 715- 253-2801 www.imcinstruments.com

Rel. 07-06-2019



TEMPERATURE MEASURING PRODUCTS

WOOD FIRED OVEN THERMOMETERS

THERMOMETER W/ANUNCIATOR SINGLE SENSOR



INDOOR-OUTDOOR LED SINGLE SENSOR





INDOOR WOOD BURNING OVENS WITH SINGLE TEMPERATURE SENSORS

INDOOR-OUTDOOR BATTERY POWERED WITH SIX TEMPERATURE SENSORS



INDOOR SLIM ENCLOSURE WITH SIX TEMPERATURE SENSORS





INDOOR WOOD BURNING OVEN WITH SINGLE TEMPERATURE SENSORS



OUTDOOR WOOD BURNING OVEN WITH ENERGY STORAGE AND SIX TEMPERATURE SENSORS



OUTDOOR WOOD BURNING OVEN WITH ENERGY STORAGE AND SIX TEMPERATURE SENSORS



468 Liberty Drive Wittenberg, WI 54499 FAX 715- 253-2811 **USA**

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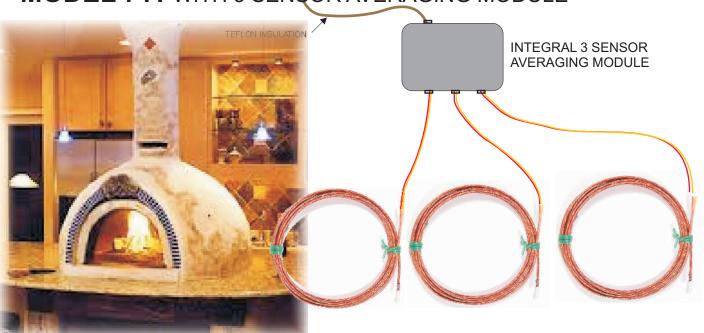
TEMPERATURE MEASURING PRODUCTS

MODEL 711 WOOD FIRED OVEN THERMOMETERS





MODEL 711 WITH 3 SENSOR AVERAGING MODULE



K THERMOCOUPLE 24 GA (5) FOOT 900F insulation with **CERAMIC BEAD termination** K THERMOCOUPLE 24 GA (5) FOOT 900F insulation with **CERAMIC BEAD termination** K THERMOCOUPLE 24 GA (5) FOOT 900F insulation with CERAMIC BEAD termination



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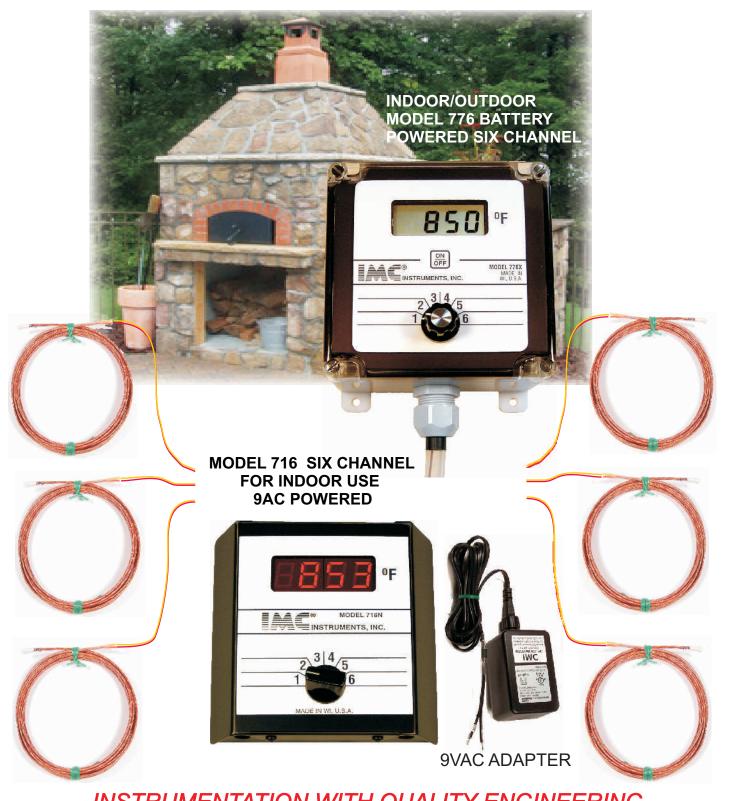
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Ver. 4-8-2015



TEMPERATURE MEASURING PRODUCTS

MODEL 7XX THERMOMETERS FOR WOOD FIRED OVENS w/ENERGY STORAGE



PRECISION DIGITAL TEMPERATURE MONITORS IN NEMA-4X ENCLOSURES FOR "QUALITY CONTROL"

These precision microprocessor thermometers have unparallel accuracy and long term stability with 1/10th or whole degree resolution. They are housed in polycarbonate NEMA-4X enclosures suitable for continuous use in high humidity or wash-down areas. Features provided on the enclosure are for permanent installation using conventional electrical accessories. These monitors are typically used in the chemical and food processing industries. Built-in quality gives these instruments an excellent combination of accuracy and durability.

FEATURES:

TC calibrations available are **T**, **K**,or **J** linearized over their entire published ANSI temperatures range to the nearest 1/10 F for exceptional accuracy.

RTD cold junction compensates accurately for ambient temperature changes as fast as 2 per minute.

High impedance circuit allows use of probes with up to 1000 ft. of 24 ga. wire. With isolation transformer, several monitors can connect to the same probe.

Large bright LED display is about ½" high; red for excellent readability. Individual digits are mounted in sockets for simple replacement.

Long-life rotary selector for displaying up to 6 thermocouple inputs. Polymer selector shaft is bushing sealed.

NEMA 4X enclosure protects the circuits against moisture and corrosion.

Large selection of probes from hypodermic needle to $\frac{1}{4}$ " dia. x 6 ft. long probes with or without handles. See probe selection in pages that follow

Models SM4K-0776 1/10 or whole degree resolution



ENGINEERED AND MANUFACTURED IN WI, U.S.A.

SPECIFICATIONS

Measuring Range:

T type is -99.0 F to 500.0 F (-72.0 C to 260.0 C). K type is -99.0 F to 999.9 F in tenths or 2300 F whole degrees (-72 C to 1260 C)

Measuring Accuracy:

T type is 0.3F from -99.0 F to 500.0 F(-72.0 C to 260.0C) including probe error

K type is 0.5F from -99.0 F to 2300 F (-72 C to 1260 C) Probe error is probe dependant

Our test facilities include NBS traceable references for all certified probes and meters.

Instrument Environmental Range

-10° to 120F° (-23° to 49° C). May be located in shaded outdoors.

Cold Junction Offset:

For an ambient range of 0F to 120 F it is \pm 1.5 F . Special low error of \pm 0.3F compensation is available up on request

Display Indication:

Updated three times per second on LED digits 0.56" (14mm) high.

Construction:

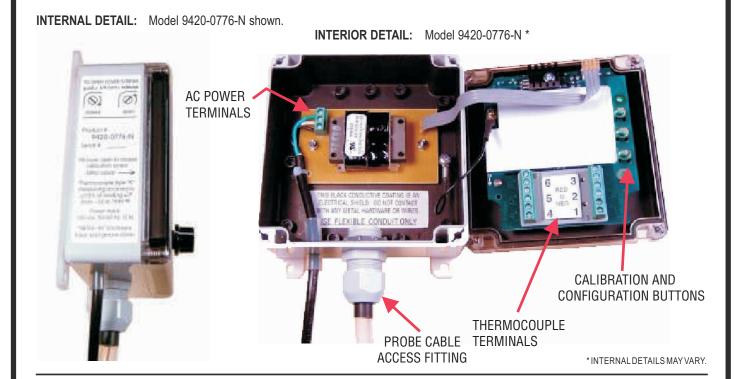
Molded polycarbonate 4.8"sq x 2.3"dp box with a NEMA-4X rating and external feet for wall mounting. External fasteners are 1/4-turn stainless steel.

Power Requirement:

Standard model requires 120 VAC @ 50/60HZ. Optional voltages are 24 and 2300 VAC.

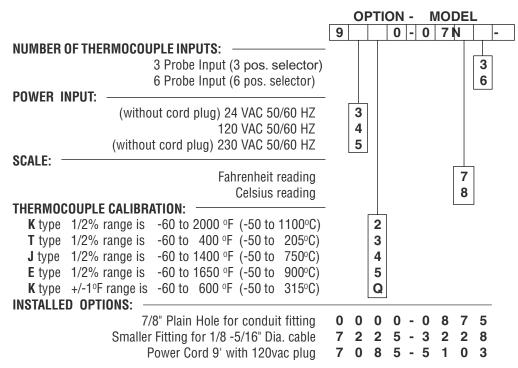
Weight:

Appx. 1.6 pounds (0.7 Kg.) without accessories.



ORDERING INFORMATION:

Refer to sheet titled "PERMANENT INSTALLATION TC PROBES" for the selection of wire and probes to complete any measuring system. All prices listed below are F.O.B. factory or distributor warehouse. Contact distributor listed below for assistance. Products are warranted against material or workmanship defects for a full year from date of shipment.



^{*} specifications are subject to change without notice



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Website: www.imcinstruments.com



TEMPERATURE MONITORS IN NEMA-4X ENCLOSURES Models 773-X9 & 776-X9 (F) or 783-X9 & 786-X9 (C)

These battery powered meters are designed for long-term monitoring of single or multiple thermocouples. Their high performance circuits are protected by a gasket-sealed NEMA-4X enclosure for use in high humidity or wash-down areas. These meters are an ideal upgrade for mechanical "dial" type gages where better readability or accuracy is required. Features provided on the enclosure are for permanent installation.

FEATURES:

Thermocouple type K,T,J or E, linearized in four sections for good accuracy. See ordering section.

RTD cold junction compensates accurately for ambient temperature changes as fast as 2 per minute.

High impedance circuit allows use of probes with up to 1000 ft. of 24 ga. wire. Several monitors can connect to the same probe.

Long-life touch pad for turning display ON/OFF.

Displayed indication "LO BAT" for low battery and a plain "1" for open thermocouple.

Long-life rotary selector for displaying up to 6 thermocouple inputs. Polymer selector shaft is bushing sealed.

NEMA 4X enclosure protects the circuits against moisture and corrosion.

Large selection of probes from hypodermic needle to 1/4" dia. x 6 ft. long probes for permanent installation or hand-held use.



ENGINEERED AND MANUFACTURED IN WI, U.S.A.

SPECIFICATIONS:

Display Range:

-199 to 1999 F or C. Usable range varies with TC type & probe construction (see ordering section).

Measuring Accuracy:

 $\pm\,1\!\!/\!\!2\%$ of reading ±1 degree using ANSI millivolt temperature standards.

Instrument Environmental Range

-5 to 120 F (-21 to 49 C). May be located in shaded outdoors.

Cold Junction Offset

One degree max. for an ambient range of 32 to

Display Indication:

Updated twice per second on 0.5" (13mm) high

Construction:

Molded polycarbonate 4.8"sq x 2.3"dp box with a NEMA-4X rating and external feet for wall mounting External fasteners are 1/4-turn stainless steel.

Power Requirement:

One or two "9V" alkaline batteries for 2000 hours (with two) or 250 days when operated 8 hrs/day

Power Requirement:

Appx. 1.0 lb (0.45 kg.) without probes



INTERIOR DETAIL: Model 9120-0776-X9 *



ORDERING INFORMATION:

Refer to sheet titled "PERMANENT INSTALLATION TC PROBES" for the selection of wire and probes to complete any measuring system. All prices listed below are FOB. factory or distributor warehouse. Contact distributor listed below for assistance. Products are warranted against material or workmanship defects for a full year from date of shipment.

	OPTION - MODEL
NUMBER OF THERMOCOUPLE INPUTS: 3 Probe Input (3 pos. selector) 6 Probe Input (6 pos. selector)	- 9 1 0 - 0 7 -X9
SCALE: Fahrenheit reading Celsius reading	7 8
THERMOCOUPLE CALIBRATION:	
K type 1/2% range is -60 to 2000°F (-50 to 1100°C)) 2
Ttype 1/2% range is -60 to 400°F (-50 to 205°C)	3
Jtype 1/2% range is -60 to 1400°F (-50 to 750°C)	4
Etype 1/2% range is -60 to 1650°F (-50 to 900°C)	5
Ktype +/-1°F range is -60 to 600 °F (-50 to 315°C)) Q
INSTALLED OPTIONS:	
7/8" Plain hole instead of Bushing	0 0 0 1 - 0 8 7 5
Smaller Fitting for cable 1/8 -5/16" Dia.	7 2 2 5 - 3 2 2 8
Second 9V Alkaline Battery	7 0 4 2 - 1 6 0 4

Specifications are subject to change without notice

DS-0776-X9 v07-09



Tel: (715) 253-2801 Fax: (715) 253-2801

Website: www.imcinstruments.com

DISTRIBUTED BY:



PERMANENT MOUNTED PROBES

OVEN MOUNTED PROBES (ie. BREAD AND PIZZA)

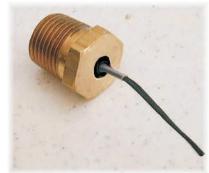


WOOD FIRED OVEN WIRE PROBES



IMMERSION PROBES





FOR ADDITIONAL PERMANENT MOUNTED PROBES PLEASE CONTACT THE FACTORY AT:

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

Rel. 12-01-2014



468 Liberty Drive Wittenberg, WI 54499 USA TEL 715- 253-2801 Rel. 3-16-2015 FAX 715- 253-2811 www.imcinstruments.com

TEMPERATURE MEASURING PRODUCTS

BREAD PROOFING AND BAKING PROBE

PROBE SPECIFICATIONS

PROBE STEM: 1/4" or 3/16" Stainless Steel with K type thermocouple sensor

Measuring Temperature range -200F to +400F HANDLE: High Temperature plastic 350F max CABLES: Food safe silicone plastic/rubber 350F max Measuring accuracy ** +/- 0.3F







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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 32F (0C) 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 \boldsymbol{F} or \boldsymbol{C} and \boldsymbol{T} or \boldsymbol{K} or \boldsymbol{J} thermocouples

IMC'S "HAND-HELD" TEMPERATURE PROBES

DETACHABLE

"TC" 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

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

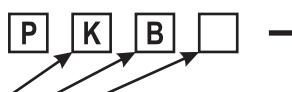
REVISED 12-01-2014

FOR ORDERING INFORMATION SEE NEXT PAGE



BUILD YOUR OWN PROBE TO MEET YOUR NEEDS

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



CABLE SLEEVE OR JACKET:

- 2 1/4" POLYURETHANE
- 3 1/4" SILICONE
- **4** 5/16" POLYURETHANE
- 5 5/16" SILICONE
- 6 3/8" POLY-ARMORED
- 7 .28" FLOPPY SST

HANDLE STYLE:

- **B** BACK EXIT (INLINE WITH PROBE)
- S | SIDE EXIT (PERP. TO PROBE)
- H BACK EXIT WITH PUSH SHOULDER

SENSOR TYPE:

- K "K" THERMOCOUPLE
- T "T" THERMOCOUPLE
- J "J" THERMOCOUPLE
- N "Ni" RTD 2-WIRE
- R "Ni" RTD 3-WIRE



PROBE STEM SIZE:

- **3** 0.11" DIA
- 4 0.125 (1/8)" DIA
- **5** 0.156 (5/32)" DIA
- 6 0.188 (3/16)" DIA
- 8 0.250 (1/4)" DIA

PROBE TIP STYLE:

- P POINTED 64 INCLUDED ANGLE
- T | TAPERED (STEPPED TO .7"LG POINT)
- Z SIDE SENSING (.7" UP) ROUNDED TIP
- W TIP SENSING ROUNDED TIP

CABLE LENGTH:

WHOLE FEET (TYPICAL CHOICES) 1/4" OD CABLES- 03 & 05" ALL OTHERS- 03, 06, 09 & 12'



WHOLE INCHES (TYPICAL CHOICES) .125 & .156 DIA- 06, 08 & 10" .188 DIA- 12, & 18" .250 DIA- 12, 18, 24, 36 & 48"

WIRE "CORE" GROUNDING:

- THERMOCOUPLES JUNCTIONS & METAL STEMS ARE GROUNDED
 - RTD ELEMENTS ARE ISOLATED & METAL STEMS ARE GROUNDED
- THERMOCOUPLES JUNCTIONS ARE ISOLATED & METAL STEMS ARE NOT GROUNDED

RTD ELEMENTS ARE ISOLATED & METAL STEMS ARE NOT GROUNDED

REV. 3-16-2015



■ INSTRUMENTS, INC.⁻

ENCLOSURES













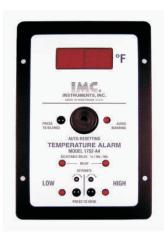
PORTABLES

BENCH METERS

THIN WALL MOUNT ENCLOSURES

PANEL OR CABINET MOUNT ENCLOSURES

STANDARD OR CUSTOM MONITORS & CONTROLS







PANEL LAYOUT PR# SCHR-0022

REVISED 12-01-2014