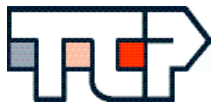


Instruments

TCP offers pyrometers for multi-point and multi-alloy readings. Reads up to 30 thermocouples in temperature ranges of 32-2500°F.

TCP has a programmable non-isolated 2-wire transmitter for in head mounting. Configuration is made in seconds using Windows software. Programmed to accept RTDs and 11 different thermocouple types. Linear 4-20 mA output.



Thermo-Couple Products Co.

PYROMETERS

Description - FDX-SL and FDX-II Pyrometers

Digital Instrumentation for temperature measurement in marine, power generation and industrial applications.

Specifications

Thermocouple Channels:

30 common ground

Thermocouples:

Type J, K, E, and T alloys
(12 to 26 A.W.G.)

Temperature Scale:

Fahrenheit or Centigrade

Resolution:

1 degree,
Fahrenheit or Centigrade

Range:

32°F to 2502°F
(0°C to 1372°C)

Input Impedance:

>100 megohms

Display:

6 digit liquid crystal 0.5"
(12.7 mm) height

Operating Temperature:

32°F to 122°F (0°C to 50°C)

Storage Temperature:

-40°F to 150°F
(-40°C to 65°C)

Meter Accuracy:

± 3°F (± 2°C)

Dimensions:

6.5"H - 5.85"W - 3.75"D
(165mm - 149mm - 95mm)

Weight:

2.5 lbs. (1.1kg)

FDX-SL

Power Supply:

9 to 48V DC; 12 to 30V AC

Features

- User-selectable global or individual alloy type
- Temperature scale
- Adjustable Scan Dwell Time
- Multi-point, multi-alloy thermocouple capability
- RS232 Output
- Direct replacement for types FA, FAX, FDX
- Panel template included
- Alarm Relay Output with Silence Feature

FDX-II

Power Supply:

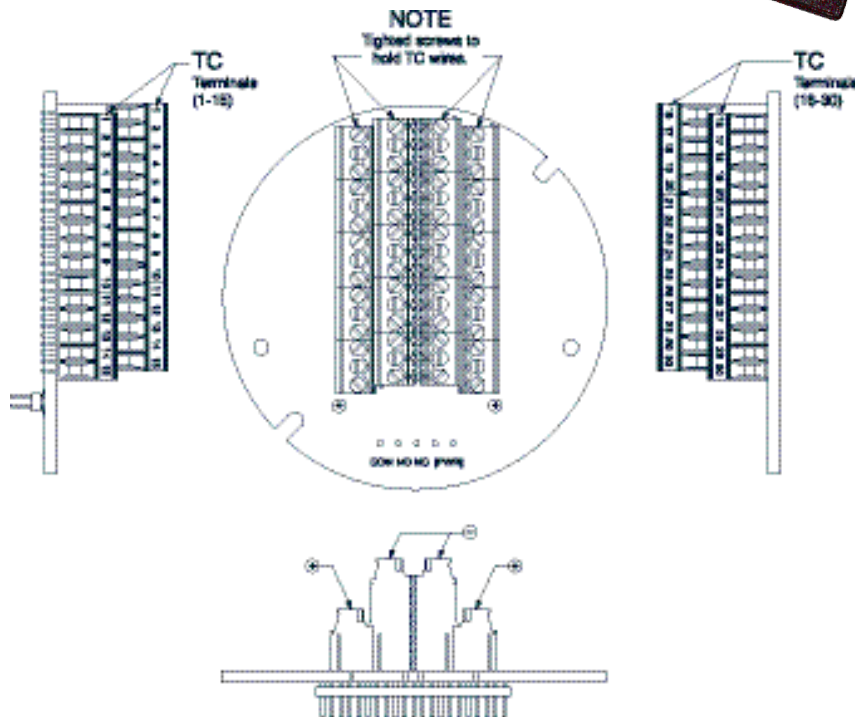
One 9V battery,
type MN 1604
or equivalent

Battery Life:

50 Hours

Features

- User-selectable global or individual alloy type
- Temperature scale
- Adjustable on-time
- Multi-point, multi-alloy thermocouple capability.
- UL listed as intrinsically safe for use in Class 1, Groups C and D, Division 1 environments
- Automatic shut-off for battery conservation
- Direct replacement for types FA, FAX, FDX
- Panel template included
- Accessories: 9V battery type MN604 or equivalent



PYROMETER

| Description | Part Number |
|------------------|-------------|
| FDX-II Pyrometer | 605-500-020 |
| FDX-SL Pyrometer | 605-500-030 |

PROGRAMMABLE TEMPERATURE TRANSMITTERS

Features

- MINIPAQ-H is a basic, non-isolated, easy to use 2-wire transmitter for in-head mounting in DIN B and similar heads.
- Configuration is made in seconds with the user friendly Windows software, MINIPAQ Soft. No external power is needed.
- MINIPAQ-H is programmable for RTD's in 3- and 4-wire connection according to different standards as well as for 11 T/C types.
- Useful error correction functions improve the accuracy.

Measurement with RTD's in 3- and 4-wire connection

- MINIPAQ-H accepts inputs from a number of standardized RTD's such as Pt100, Pt500 and Pt1000 acc. to IEC 60751 ($\beta=0.00385$), Pt100 acc. to JIS C 1604 ($\beta=0.003916$) and US standards ($\beta=0.003902$) as well as Ni100 and Ni1000 acc. to DIN 43760.
- 3- and 4-wire connection can be selected.

Measurements with thermocouples

- MINIPAQ-H accepts inputs from 11 types of standardized thermocouples.
- For T/C input, the CJC (Cold Junction Compensation) is fully automatic, by means of an accurate measurement of the terminal temperature. Alternatively, the CJC can be disabled.

Temperature linear output

- Fully temperature linear 4-20 mA output for RTD's and thermocouples.



MINIPAQ-H

Manufactured for Thermo-Couple Products Company by INOR.

Sensor matching and error corrections for maximum accuracy

- A matching to a calibrated temperature sensor can easily be performed with the Sensor Error Correction function.
- The System Error Correction is a convenient way to adjust the sensor/transmitter combination (or just the transmitter) for highest accuracy in a certain measuring range.

Namur compliant

- Output limitations and fail currents according to NAMUR recommendations.

Designed for harsh conditions

- Rugged design tested for 5g vibrations.

Mounting and wiring

- MINIPAQ-H is designed to fit inside connection heads type DIN B or larger.
- The large center hole, dia. 7mm / 0.28 inch, and the robust terminals greatly simplify the mounting and wiring procedure.

Configuration without external power

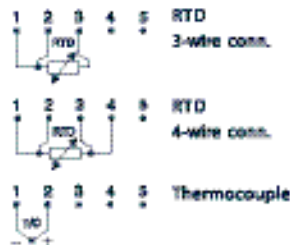
- Edit or read the configuration off-line by just connection a PC.

MINIPAQ-H Soft, easy-to-use Windows configuration software.

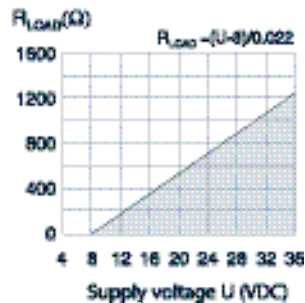
- The simple and user friendly software, MINIPAQ-H Soft, is used for transmitter configuration in seconds. In one window all parameters are set, such as sensor type, measuring range, filter activation, CJC, sensor failure action, error corrections etc.

To be used for Isolated Junctions.

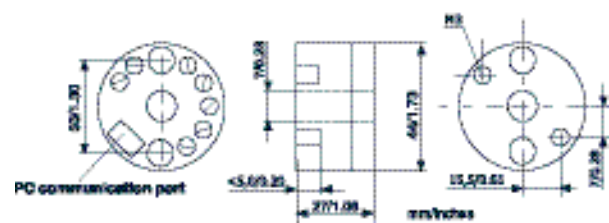
Input connections



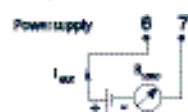
Output load diagram



Dimensions



Output connections



MINIPAQ-H Transmitter

| Description | Part Number |
|-------------|-------------|
| MINIPAQ-H | 242A |