The Portable Handheld Digital Indicator/Calibrator is the answer to many In-Plant applications. Being highly portable and featuring laboratory accuracy, utilization is simple and readings correct. With the optional "Calibrator Output" just dial the desired temperature (displayed in °F or °C) and the unit will generate a millivolt output for calibration or checking controllers and other digital indicators with the same type of thermocouple input. Unique handle gives a secure, tool like grip.
FEATURES

• TEMPERATURE RANGES AVAILABLE:
  1. −100 to 1000°F/−73 to 538°C, Type "J" Input.
  2. 0 to 1999°F/−18 to 1093°C, Type "K" Input.

• OPTIONAL CALIBRATOR OUTPUT
  Calibrate or check other controllers and digital indicators with the same type of thermocouple input.

• LABORATORY ACCURACY

• DUAL SCALE SWITCH
  Switch instantly between °F and °C.

• 9V Alkaline battery supplied or optional rechargeable battery and charger available.

• COMPACT-LIGHT WEIGHT

• CHOICE OF L.C.D. OR L.E.D. DISPLAY

• STRONG, METAL CASE FOR CIRCUIT PROTECTION

SPECIFICATIONS

MODEL: 6406-00EX-0XXX 6406-00CX-0XXX
DISPLAY: 3½ Digit L.E.D. 3½ Digit L.C.D.
          .165° High Indication .500° High Indication
TEMPERATURE RANGES: 1. −100 to 1000°F/−73 to 538°C, Type "J" Input.
                     2. 0 to 1999°F/−18 to 1093°C, Type "K" Input.
ACCURACY: ± .25% of span ± 1 LSD.
BATTERY LIFE: 8HRS. with 9V Alkaline 100HRS. with 9V Alkaline
              1.5HRS. with Ni-Cad 15HRS. with Ni-Cad
OPERATING AMBIENT: 30 to 130°F 50 to 130°F
WARM UP TIME: INSTANTANEOUS INSTANTANEOUS
OPTIONAL CALIBRATOR OUTPUT: ± .25% of span ± 1 LSD.
                           Output will source 1mA of current.
OVER RANGE AND OPEN SENSOR PROTECTION: Display will indicate 3--- Display will indicate 1---
WEIGHT: 12 oz. 12 oz.
**DIMENSIONAL AND BATTERY INSTALLATION**

![Diagram of battery installation]

**BATTERY INSTALLATION**

1. Remove two phillips screws from the sides of the front Bezel.
2. Slide entire module assembly out.
3. Install battery in rear of module.
4. Reinsert assembly and replace front Bezel.

---

**USE OF “CALIBRATOR OUTPUT”**

1. Connect “Calibration Lead Assembly” to the thermocouple input jack of the DTI and the unit to be analyzed.
2. Turn power on. Set the “measure/output” switch to “output” and “°F/°C” switch to °F or °C indication depending on temperature scale of the unit being analyzed.
3. Adjust the “Output Signal Adjustment” to the desired temperature.
4. **A) UNITS WITH DISPLAY**
   - The DTI and unit being analyzed should display the same temperature.
4. **B) UNITS WITHOUT DISPLAY**
   - Adjust the “Setpoint” on the unit being analyzed to the displayed temperature of the DTI. Output of controller should actuate.

---

**TROUBLESHOOTING CHART**

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>DIAGNOSIS</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NO DISPLAY</strong></td>
<td>1. Battery Low . . .</td>
<td>Replace battery</td>
</tr>
<tr>
<td></td>
<td>2. Battery OK . . .</td>
<td>Return unit to factory</td>
</tr>
<tr>
<td><strong>ERRONEOUS DISPLAY</strong></td>
<td>1. Short out thermocouple connector on back of unit. Display should be stable and approximatively ambient.</td>
<td>Repair or replace sensor Return unit to factory</td>
</tr>
<tr>
<td></td>
<td>A) If present and proper . . .</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B) If not present and proper . .</td>
<td></td>
</tr>
<tr>
<td><strong>DISPLAY INDICATES</strong></td>
<td>1. Thermocouple sensor open . .</td>
<td>Repair or replace sensor Use unit with higher range</td>
</tr>
<tr>
<td></td>
<td>2. Temperature being measured above the range of unit . . .</td>
<td></td>
</tr>
<tr>
<td><strong>DISPLAY WILL NOT INDICATE</strong></td>
<td>1. Battery Low . . .</td>
<td>Replace battery Return unit to factory</td>
</tr>
<tr>
<td></td>
<td>2. Battery OK . . .</td>
<td></td>
</tr>
<tr>
<td><strong>with T.C. open</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ORDER INFORMATION

DISPLAY TYPE
C. L.C.D. (Liquid Crystal Display)
E. L.E.D. (Light Emitting Diode)

CALIBRATOR OPTION
1. With calibrator option
2. Without calibrator option

TEMPERATURE RANGE
601. - 100 to 1000°F/—73 to 538°C, Type “J”
602. 0 to 1999°F/ — 18 to 1093°C, Type “K”

EXAMPLE: 6406-OOC1-0601 = DISPLAY TYPE: L.C.D.
CALIBRATOR OPTION: WITH CALIBRATOR OUTPUT
TEMPERATURE RANGE: —100 to 1000°F/—73 to 538°C, WITH TYPE “J” INPUT

ACCESSORIES

THERMOCOUPLE PROBES
UTILITY
SURFACE
GAS
BENDABLE
PENETRATION
06-0018
06-0020
06-0016
06-0019
06-0017
06-0022
06-0024
06-0023
06-0025
06-0021

CALIBRATION LEADS
A001-050
A001-064

THERMOCOUPLE ADAPTER
A001-058
A001-061

THERMOCOUPLE CONNECTOR
MALE
FEMALE
836-065-001
836-066-001
836-065-002
836-066-002

BENCH STAND
Z100-110

BATTERY, ALKALINE
830-109

BATTERY, NI-CAD
830-106

BATTERY, CHARGER
830-108

SPECIAL THERMOCOUPLES: Enclose a drawing if possible.