c UL us LISTED E469078

CE

RoHS COMPLIANT

- 1/8 DIN Case (96x48mm)
- 3-button Front Panel Operation
- 5-digit, 7-segment 0.56" (14.2 mm) LED Display

DI-50-FLOW

Flow Rate & Two Totalizers

Introduction

The DI-50-FLOW and Totalizer is a member of the TIGER series of 1/8 DIN digital panel meter controllers. Its user-selectable software function converts an input rate to an input total over time from an analog output (4-20mA, 0-5V, 1-5V, etc.) of a flowmeter. Its Cutoff function prevents counts from being subtracted from the total. If the Rollover is set to ON, when the total is exceeded by more than one count, the amount over the maximum is added to the new total.

Flow rate is typically displayed on the primary display, and by pressing UP or DOWN buttons, the cumulative total is displayed on Total 1 or Total 2. The total overflow feature allows up to a 5-digit total and a grand total to be displayed.

The standard display is Red LEDs with optional Green or sunlight-visible Blue LEDs.

DI-50-FLOW is designed and manufactured in the USA. UL-listed, RoHS and CE compliant, with a NEMA 4X front.

DI-50-FLOW meters can be equipped with up to four internal relays, a 4-20 mA output, and Modbus® RTU serial communications. The DI-50-FLOW includes a 24 VDC power supply to drive the flowmeter and can be programmed via the front panel pushbuttons or free Texmate Utility Configuration software.

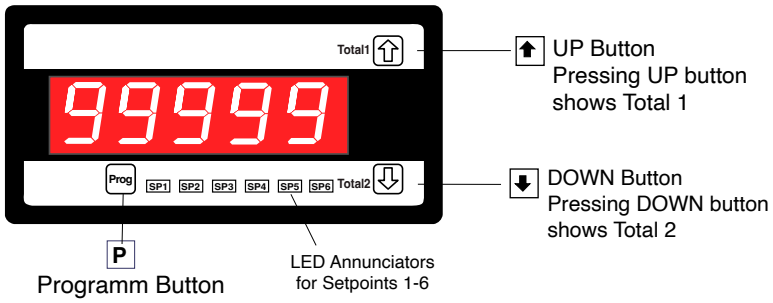
The resident Tiger 320 operating system also provides a range of built-in measurement and control functions providing a reliable and precise industrial quality weighing solution. These include:

- **Relays.** Two 9A Form C, or up to Six 4A Form A.
- **Setpoints.** Six programmable setpoints with advanced multiple timer modes, hysteresis, deviation, PID, and setpoint tracking.
- **Analog Output.** Fully scalable from 4 to 20 mA (or reverse) as standard, or optional 0 to 10 V DC and Dual 4-20mA/0-10V DC.
- **Linearization.** Up to four 32-point flexible linearization tables or a single 125-point flexible table.
- **Serial Communications.** Ethernet, Modbus Protocol, RS-232, RS-485, USB
- **Data Logging.** Optional data Acquisition module with Removable 2GB SDs with real-time clock (OR91).
- **Power Supplies.**

  Standard high voltage
  AC/DC power supply 85-265VAC / 95-300 V DC.

  Optional low voltage
  AC/DC power supply 15-48 VAC / 15-72 VDC.

Fron Panel Controls and Indicators



Specifications

General

Digital Display: 7-segment, 0.56" (14.2 mm) LEDs.
Display Color: Red
Display Range: -19999 to 99999.
Display Update Rate: 10 times per second.
Display Dimming: 8 brightness levels. Front panel selectable.
Polarity: Assumed positive. Displays – negative.
Annunciators: 6 red LEDs on front panel.
Overrange Indication: oUEr
Underrange Indication: UndEr
Front Panel Controls: PROGRAM, UP, and DOWN buttons.

Power Supplies

Standard high voltage AC / DC power supply 85-265 V AC / 95-370 V DC.

Optional low voltage AC / DC power supply 18-48 V AC / 10-72 V DC.

Environmental

Operating Temperature: 0 °C to 50 °C (32 °F to 122 °F).
Storage Temperature: -20 °C to 70 °C (-4 °F to 158 °F).
Relative Humidity: 95% (non-condensing) at 40 °C (104 °F).

Mechanical

Case Dimensions: 1/8 DIN, 96x48 mm (3.78" x 1.89").
Case Depth: 137 mm maximum (5.39").
Case Material: 94V-0 UL rated self-extinguishing polycarbonate.
Weight: 11.5 oz (0.79 lbs), 14 oz (0.96 lbs) when packed.

Approvals

CE: As per EN-61000-3/4/6 and EN-61010-1.
Analog to Digital: Single channel ΣΔ A/D convertor approaching 19-bit resolution. Ratiometric operation relative to excitation voltage magnitude.
Output Rate: 10 Hz averaged response output.
Line Frequency Rejection: 50 / 60 Hz noise rejection.

Relays

Plugs into carrier board from rear:

Four 5 A Form A Relays or Two 9A Form C Relays.

***Form C Relay Specifications:** 9A 240VAC~1/2 HP, 8A 24VDC. Isolation 3000V. UL and CSA listed.

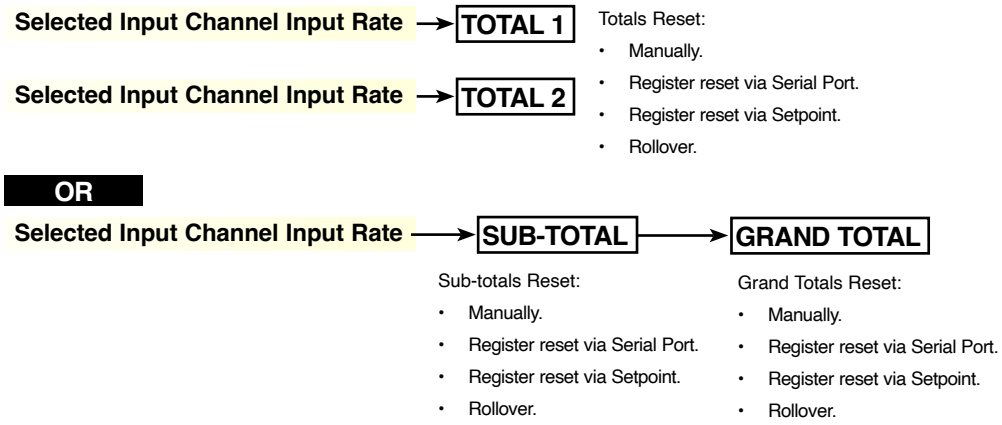
****Form A Relay Specifications:** 5A 240VAC, 4A 24VDC. Isolation 3000V. UL and CSA listed.

Technical Description

A totalizer is a user selectable software function of the meter that converts an input rate to an input total over time. For example:

> A customer has a settling tank being filled with water. The flow rate is metered and input to a Tiger 320 Series meter. The flow rate indicates the speed at which the volume of water travels past a set point, but not the total volume accumulated in the tank. The meter's totalizer performs this function and provides the customer with the total amount of water currently in the tank. This then allows the customer to make control decisions, such as when to turn the tap off before the tank overflows.

Each Tiger 320 Series meter has two independent totalizers suitable for a wide variety of totaling and batching applications. Each totalizer can operate independently or combine to generate a sub-total and grand total. Totals can be reset using one of a number of methods. Setpoints can be used to reset a sub-total and increment a grand total.



Before You Start Setting the Totalizer

Configuring the meter for a totalizer application requires some basic settings to be decided beforehand. These settings are the **unit input rate**, the **resolution of the unit input rate**, and the **resolution of the totalizer**. When the settings are known, enter the calibration mode and calibrate the selected input channel to be totalized.

Unit Input Rate

This is the term for the unit amount of the input signal to be totalized in relation to time. For example, the unit input rate of a flow rate of 100 liters per second is **liters per second**. Some other examples of the unit input rate would be revolutions per minute or joules per hour.

Input Signal Resolution

This uses the position of the decimal point to determine how coarse or how fine the units of an input signal are displayed on the meter. Input signal resolution must be set correctly for the selected input channel.

Input Signal Calibration

The input signal must be calibrated to suit the **unit input rate**, taking into consideration the required **input signal resolution**. For example:

> If we wanted to display an input flow rate of 350 gallons per minute (GPM) in tenths (0.1) of a gallon, the meter could be scaled to read 0 counts for 0 GPM and 3500 counts for 350 GPM. With the input signal resolution set to tenths, the meter would then display 350.0 counts for 350 GPM, or 276.9 counts for 276.9 GPM.

Totalizer Resolution

This also uses the position of the decimal point to determine resolution. In this case it is how coarse or how fine the units of the totaled amount are displayed on the meter. For example:

> Using our 350 GPM flow rate again, we want to display 1 kilogallon for every 1,000 gallons totaled. With the display resolution configured with no decimal point, we would add 1 to the totalizer after 1,000 gallons. But, if we wanted the totalizer to display to the nearest 100 gallons, we would then place the decimal point between the last two digits. Therefore, 1,000 gallons would display as 1.0 on the totalizer, but 1652 gallons would display as 1.6.

Totalizer Settings

The totalizer settings are configured in the calibration mode. To enter the totalizer settings mode, enter the calibration mode and select [23X].

Selecting **2** in the 1st digit selects **related calibration functions**, selecting **3** in the 2nd digit selects the **totalizer settings mode**. Select **1** in the 3rd digit to select **totalizer 1** or **2** to select **totalizer 2**.

Entering the totalizer settings mode allows you to configure the following settings for the selected totalizer:

- **Input Rate**. Displayed as: . . . . . inPut 10000
- **Running Time**. Displayed as: . . . . . AFtEr 1 hr
- **Required Total**. Displayed as:. . . . . tot= 1
- **Cutoff**. Displayed as: . . . . . CutoF 0
- **Rollover**. Displayed as: . . . . . r_oUr oFF

Programming Tip

Alternatively, you can use Texmate's free Tiger Meter/ Controller Configuration Utility software. Please note that a serial output module is required.

To download this utility, please visit texmate.com and navigate to Downloads > Software.

Input Rate

The input rate has a default setting of 10,000 counts. This can be adjusted to suit the known input rate of an application.

So, using our 350 GPM flow rate example, to display in units of 1 gallon we can adjust the input rate from 10,000 counts to 350 counts. Or, if we wanted to display the total in tenths of a gallon, we can adjust the input rate to 3500 counts, making sure the totalizer resolution is set for tenths (0.1). This gives us a display of 350.0 for 350 GPM.

Running Time

The running time is the period over which the input rate is accumulated in the totalizer. The following running times are selectable in the meter:

Running Times				
Seconds	**Minutes**	**Hours**	**Days**	**Weeks**
1	**1**	**1**	**1**	**1**
10	**10**	**10**	**-**	**-**

Total Required

This is the total you wish to see after a selected running time. The time unit of the input rate is normally selected as the running time. For example, if gallons per minute is the rate unit, then you would use **1 minute** as the running time. Or, if liters per hour is the rate unit, then you would use **1 hour** as the running time.

So once again, using our 350 GPM flow rate, the running time is **1 minute**. This means that when we set the required **total**, it is with the understanding that the total is expressed as a unit of gallons per minute. For example:

If we wish to display 1 kilogallon for every 1,000 gallons totalled, we would set the required **total** to **1**.

But, if we wanted the totalizer to display to the nearest 100 gallons, we would have to move the decimal point to add an extra unit. Therefore, instead of setting the required **total** as **1**, we would set it to **10**. The 1,000 gallons would then display as 1.0 on the totalizer as long as the input signal resolution is set to 0.1 (tenths).

Cutoff

This is normally set to 0 to prevent counts being subtracted from the total, but it can be set anywhere from –19999 to 32767 counts, depending on the application.

For example, if the meter is scaled from 0 to 100 counts for a 4-20 mA input and the input power goes off, –25 counts would be subtracted from the total for the 0 mA signal. With cutoff set to 0.0, the totalizer ignores any counts below this setting (i.e. –25 counts).

Note:
The rollover feature should not be used with the set-point reset feature as this could cause inaccurate results. See Resetting the Total from a Setpoint.

Rollover

When set to ON, rollover automatically resets the total to 0 when the total value exceeds the maximum count possible on the display by one count (99,999 for 5-digit, 999,999 for 6-digit, and 99,999,999 for 8-digit meters). If the total is exceeded by more than one count, the amount over the maximum display is added to the new total.

Note, the totalizer does not increment any other register to record the rollover.

Current Total			New Total
99999	+ 1	Rollover resets to	0
99999	+ 2	Rollover resets to 0 and 1 is added to new total	1
99999	+ 9	Rollover resets to 0 and 8 is added to new total	8

Example 1:

In Example, a 4-20 mA input represents a flow rate of 500 gallons per minute (GPM) with:

- **4 mA representing zero flow, and**
- **20 mA representing 500 GPM.**

Our customer requires:

- **The flow rate displayed in units of 0.1 GPM on the operational display.**
- **The total volume up to 10,000 gallons calculated and displayed in units of 0.1 of a gallon on the recall display of Totalizer 1 in the View Mode.**
- **A second total incremented by 1 count every 10,000 gallons on the recall display of Totalizer 2 in the View Mode.**

Programming Tip

Alternatively, you can use Texmate's free Tiger Meter Controller Configuration Utility software. Please note that a serial output module is required.

To download this utility, please visit texmate.com and navigate to Downloads > Software.

Configuration Settings

For Example 1, we perform the following configurations:

- Two Point Rate Calibration
- Set Display Resolution Format
- Configure Display Input Data Source
- Configure Totalizer 1 and Totalizer 2 settings

Two Point (Low and High) Rate Input Signal Calibration p.5

Calibrate Channel 1 (CH1) using the two-point calibration method. Set the calibration mode display to **[111]**.

Set the [ZEro] input to [0.0] and the [SPAn] input to [500.0].

Configure Display Resolution Format Procedure p.6

Configure the display format for channel 1 with **no rounding**, **decimal** display units, and the **decimal point** placed between display digits 4 and 5 (0.1 resolution) by setting Code 1 to [**X61**].

Configure Display Input Data Source p.7

- Select: **Primary Display**
- Set source of primary display to: **CH1**
- Calibrate input signal over 0 to 5000 counts
- Set resolution of CH1 to: **Tenths**

  Positions the decimal point to display flow rate at **0.1** GPM resolution

Configure Totalizer 1 p.8-9

- Set **source** of totalizer **1** to: **CH1**
- Set **resolution** of totalizer **1** to: **Tenths**

  Positions the decimal point to display total at **0.1** GPM resolution
- Set **input rate** to: **5000** counts
- Set running time to: **1 minute**
- Set the required **total** to: **500.0**
- Totalize **CH1** flow rate up to **10,000** gallons and activate pulse output from SP1 to increment **totalizer 2** by 1 count
- Reset to **0** at **10,000** gallons activated from SP1
- Cut Off: **0**
- Rollover: **OFF**

Configure Totalizer 2 p.8-9

- Set **source** of totalizer **2** to: **CH1**
- Set **resolution** of totalizer **2** to: **Ones**

  Positions the decimal point to display totalizer **2** resolution in units of **1** per 10,000 gallons
- Set **input rate** to: **5000** counts
- Set running time to: **1 hour**

  At input rate of 500 GPM x 20 min totalizer 2 displays **1 (**10,000 gal). So after 1 hour, totalizer 2 displays **3** (30,000 gal).
- Set the required **total** to: **3**

  Totalizer 2 displays **1** every 10,000 gallons recorded by totalizer 1
- Cut Off: **0**
- Rollover = **ON**

Two Point Rate Calibration

Programming Tip

To enter the **main programming mode** press the [P] and [↑] buttons at the same time. To exit and return to the operational display, press the [P] and [↑] buttons again at the same time.

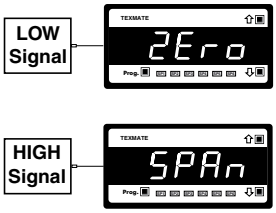
***Example 1* Procedure:**

Calibrate Channel 1 (CH1) using the two-point calibration method. Set the calibration mode display to **[111]**.

Set the [ZEro] input to [0.0] and the [SPAn] input to [500.0].

The LOW input source is applied to the meter when setting the zero value.

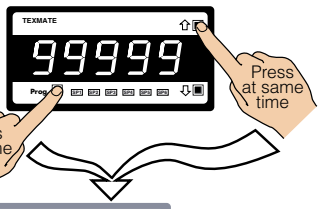
The HIGH input source is applied to the meter when setting the span value.



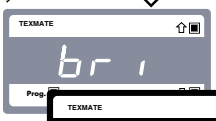
START HERE

TWO-POINT CALIBRATION

Operational Display

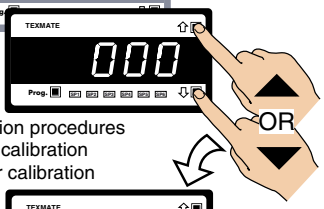


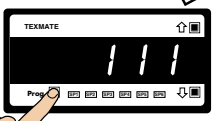
Step 1
Enter brightness mode



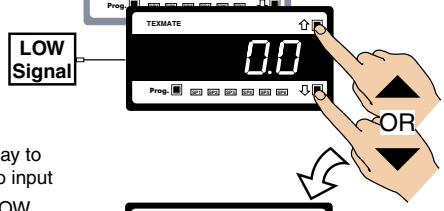
Step 2
Pass brightness mode and enter calibration mode

Step 3
Set CAL to [111]:
1st Digit = 1 Selects calibration procedures
2nd Digit = 1 Selects 2-point calibration
3rd Digit = 1 Selects CH1 for calibration



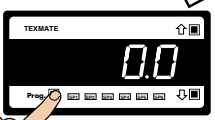


Step 4
Enter CAL mode [111] For 2-point calibration of CH1



Step 5
5.1. Adjust display to read 0.0 for zero input

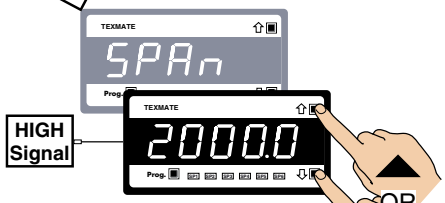
5.2. Apply the LOW input signal



Step 6
Set reading for zero load into meter and enter span mode

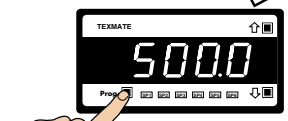
To Step 7

From Step 6

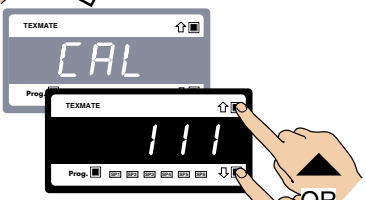


Step 7
7.1. Adjust display to read 500.0 for span input

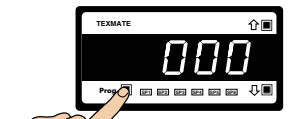
7.2. Apply the HIGH input signal



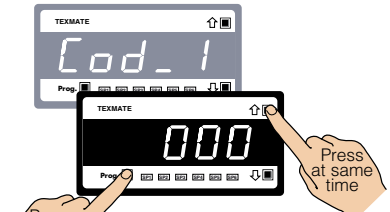
Step 8
Save zero and span settings and re-enter calibration mode



Step 9
Select the **no function** calibration mode [000]



Step 10
Save calibration mode [000] setting and enter Code 1



Step 11
Exit Code 1 and return to operational display

Operational Display

Configure Display Resolution Format Procedure

***Example 1* Procedure:**

Configure the display format mode for channel 1 with **no rounding**, **decimal** display units, and the **decimal point** placed between display digits 4 and 5 (0.1 resolution) by setting Code 1 to [**X61**].

Display Format Mode

P | dISP | 000 — Program the three digits to the required display format mode

FIRST DIGIT LAST DIGIT ROUNDING
0 No rounding
1 Rounding by 2's
2 Rounding by 5's
3 Rounding by 10's

SECOND DIGIT DISPLAY UNITS
0 Decimal
1 24-hour clock mode Hours: Minutes: Seconds (6-digit version only)
2 12-hour clock mode (12:30 am is displayed as 12:30A. 12:30 pm is displayed as 12:30P)
3 24-hour clock mode Days: Hours:Minutes (6-digit version only)
4 -
5 -
6 -
7 Octal

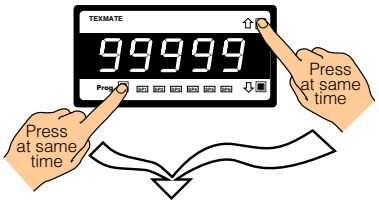
THIRD DIGIT DECIMAL POINT PLACEMENT
0 No decimal point
1 -
2 -
3 X.XXXX
4 X.XXX
5 X.XX
6 X.X
7 Decimal Point set from the rear (X.XXXX to XXXXX)

Note:
Selecting 1, 2, or 3 in the second digit of the Display Format Mode configures the display of the selected channel as a clock.

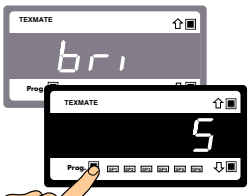
START HERE

CONFIGURE DISPLAY FORMAT MODE

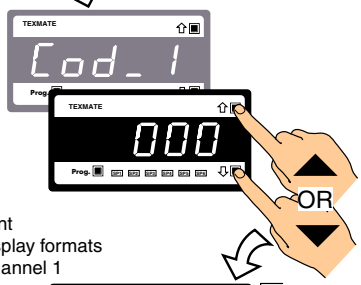
Operational Display



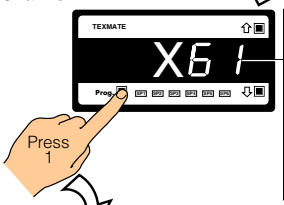
Step 1
Enter brightness mode



Step 2
Pass brightness and calibration modes and enter Code 1

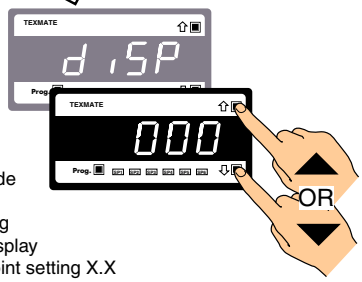


Step 3
Set Code 1 to [X61]:
1st Digit = X Not relevant
2nd Digit = 6 Selects display formats
3rd Digit = 1 Selects Channel 1



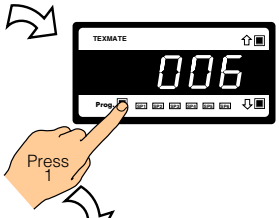
0 Result
1 Channel 1
2 Channel 2
3 Channel 3
4 Channel 4
5 Default Display
6 Total 1
7 Total 2

Step 4
Enter the display format mode

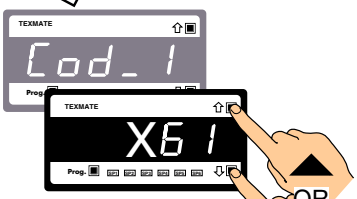


Step 5
Select the following display format from the three digits listed in the Display Format Mode diagram above:
1st Digit = 0 No rounding
2nd Digit = 0 Decimal display
3rd Digit = 6 Decimal point setting X.X

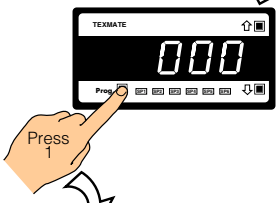
From Step 5



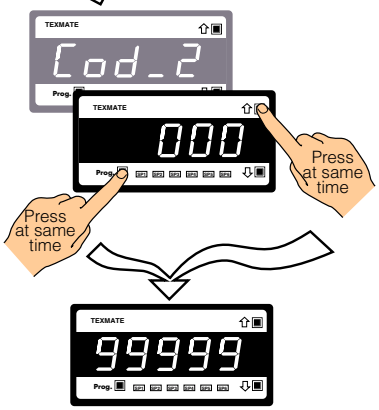
Step 6



Step 7
Select [000] to leave Code 1



Step 8
Save display format setting



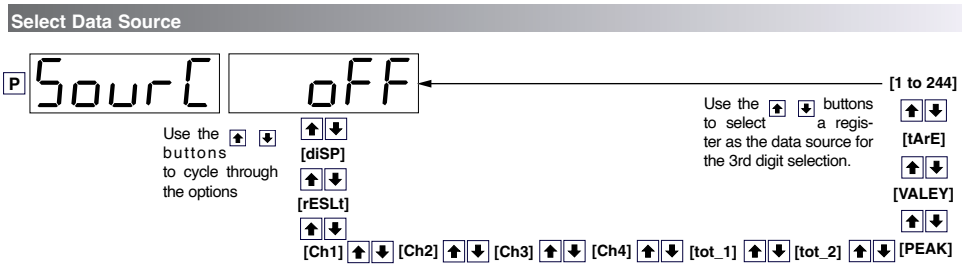
Step 9
Exit Code 2. Return to operational display

Operational Display

Configure Display Input Data Source Procedure Example Procedure:

***Example 1* Procedure:**

Configure the **primary** display (selected in 3rd digit) with channel 1 [Ch1] as the data source by setting Code 1 to [**X50**]. See diagram opposite for data source selection options.



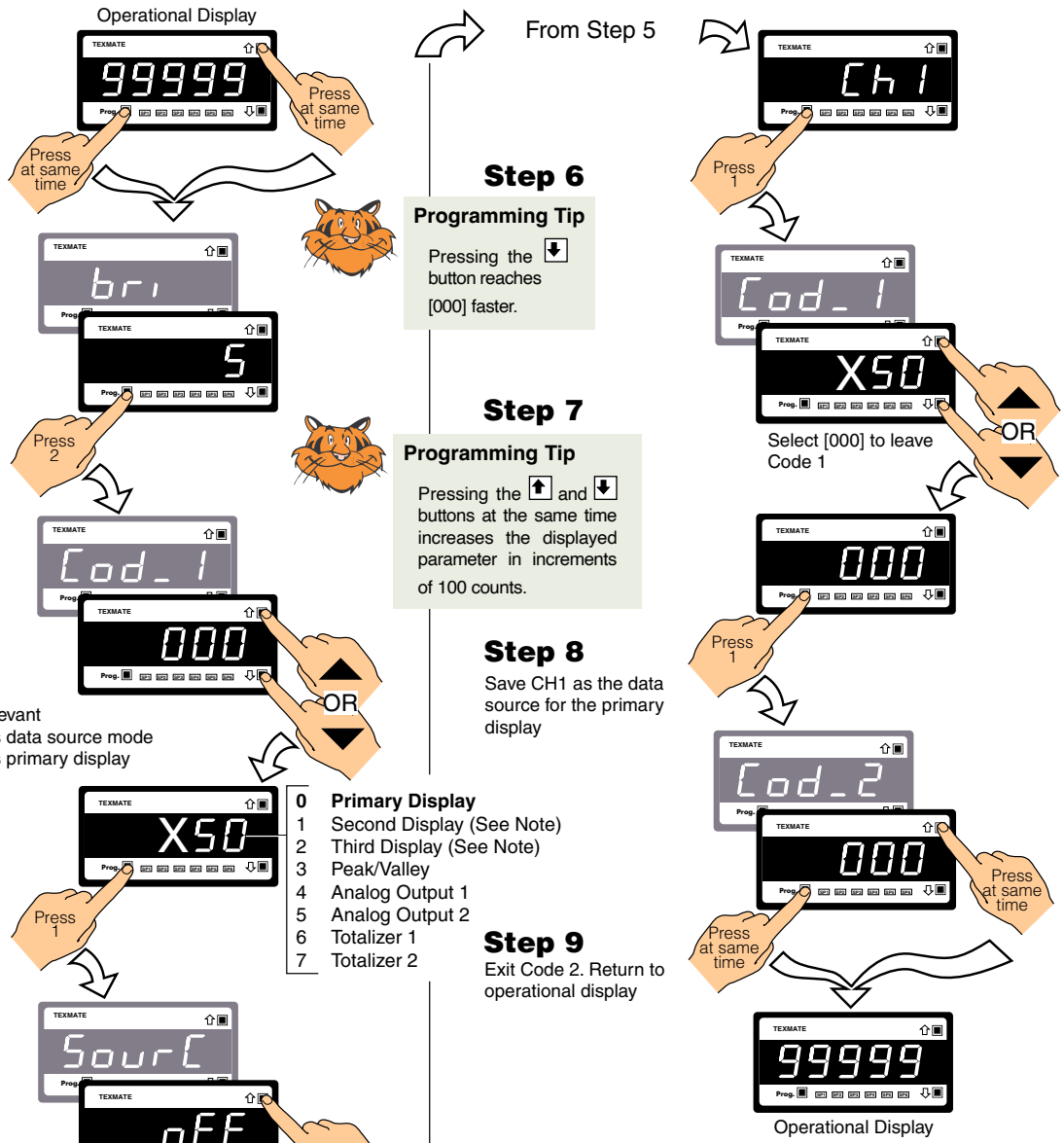
Programming Tip

To enter the **main programming mode** press the P and ↑ buttons at the same time. To exit and return to the operational display, press the P and ↑ buttons again at the same time.

At the end of any procedure (Step 8 in this procedure) the P button must be pressed before the P and ↑ buttons are pressed, otherwise the meter returns to the operational display without saving the new settings.

START HERE

CONFIGURE DATA SOURCE



Note:

Options 1 and 2 listed for the third digit in Step 3 above are only for use with meters that have more than one display. With bargraph meters the PRIMARY display is the digital display, and the SECONDARY display is the bargraph display.

Configure Totalizer Settings Procedure

***Example 1* Procedure:**

Enter the calibration mode and configure the totalizer settings for **totalizer 1**.

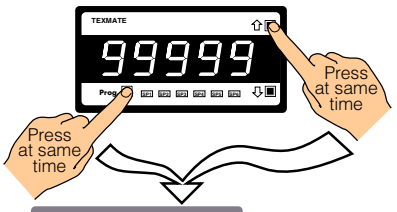
***Example 1* Procedure:**

Carry out the same procedure described for totalizer 1 but change the settings to those listed for **totalizer 2**.

START HERE

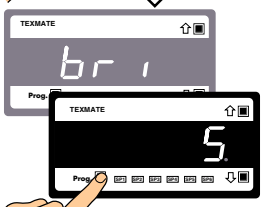
CONFIGURE TOTALIZER SETTINGS

Operational Display



Step 1

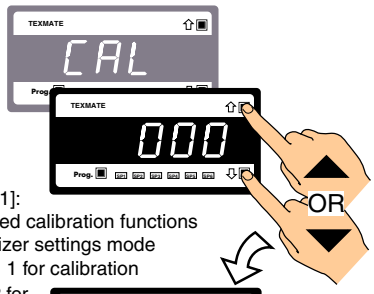
Enter brightness mode



Step 2

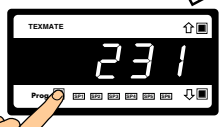
Pass brightness mode and enter calibration mode

Press 1



Step 3

Set calibration mode to [231]:
1st Digit = 2 Selects related calibration functions
2nd Digit = 3 Selects totalizer settings mode
3rd Digit = 1 Selects Total 1 for calibration
*(3rd Digit = 2 Select Total 2 for calibration)

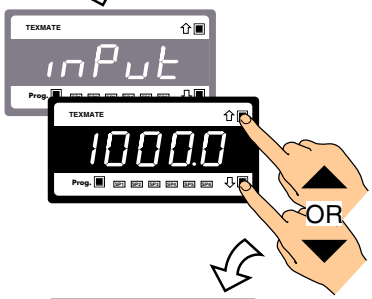


[231] = Total 1
[232] = Total 2

Press 1

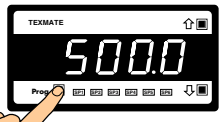
Step 4

Enter the **input rate setting** mode.
The default setting is 10,000 counts. Reset the display to 500.0



Step 5

Save the input rate setting

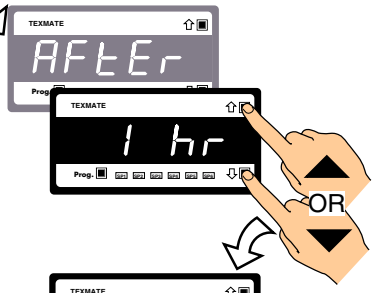


Press 1

Step 6

Enter the **running time** mode

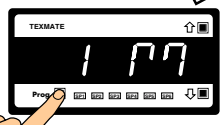
From Step 6



Step 7

Set the running time to 1 minute

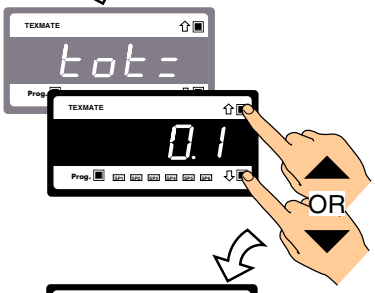
Note:
The default running time is 1 hour



Press 1

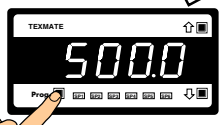
Step 8

Enter the **required total** mode



Step 9

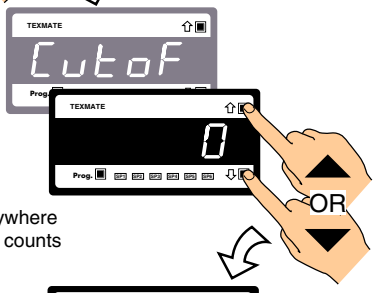
Set the total to 500.0



Press 1

Step 10

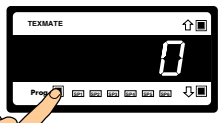
Enter the **cutoff** mode



Step 11

Set cutoff to 0

Note, cutoff can be set anywhere between –19999 to 32767 counts



Press 1

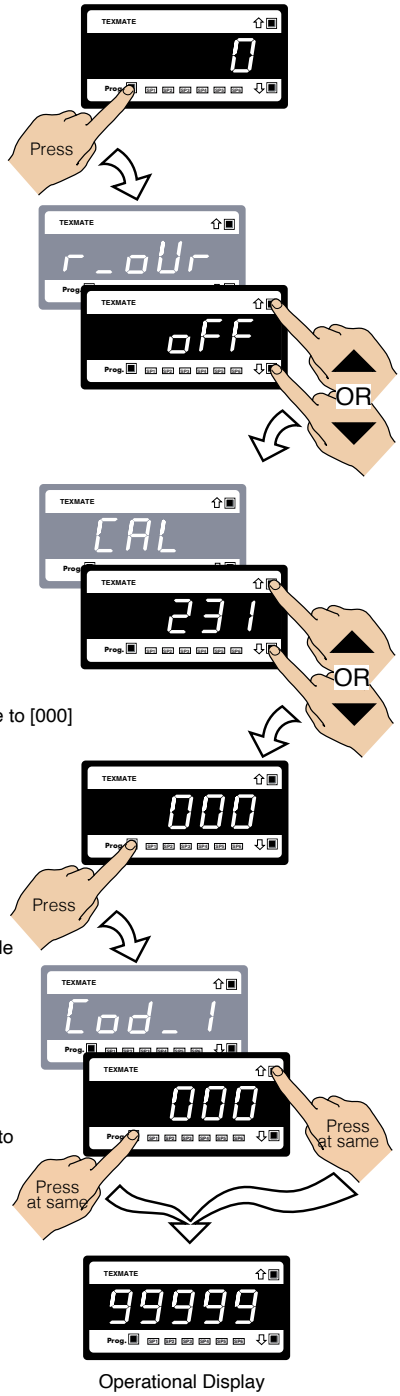
Step 12

Enter the **rollover** mode

Configure Totalizer Settings Procedure
continued on next page (Step 13).

To Step 7

Configure Totalizer Settings Procedure
continued from bottom of previous page



Step 13
Enter the Rollover Mode

Step 14
Set the Rollover Mode to OFF

Step 15
Reset Calibration Mode to [000]

Step 16
Exit the Calibration Mode and enter Code 1

Step 17
Exit Code 1 and return to the Operational Display

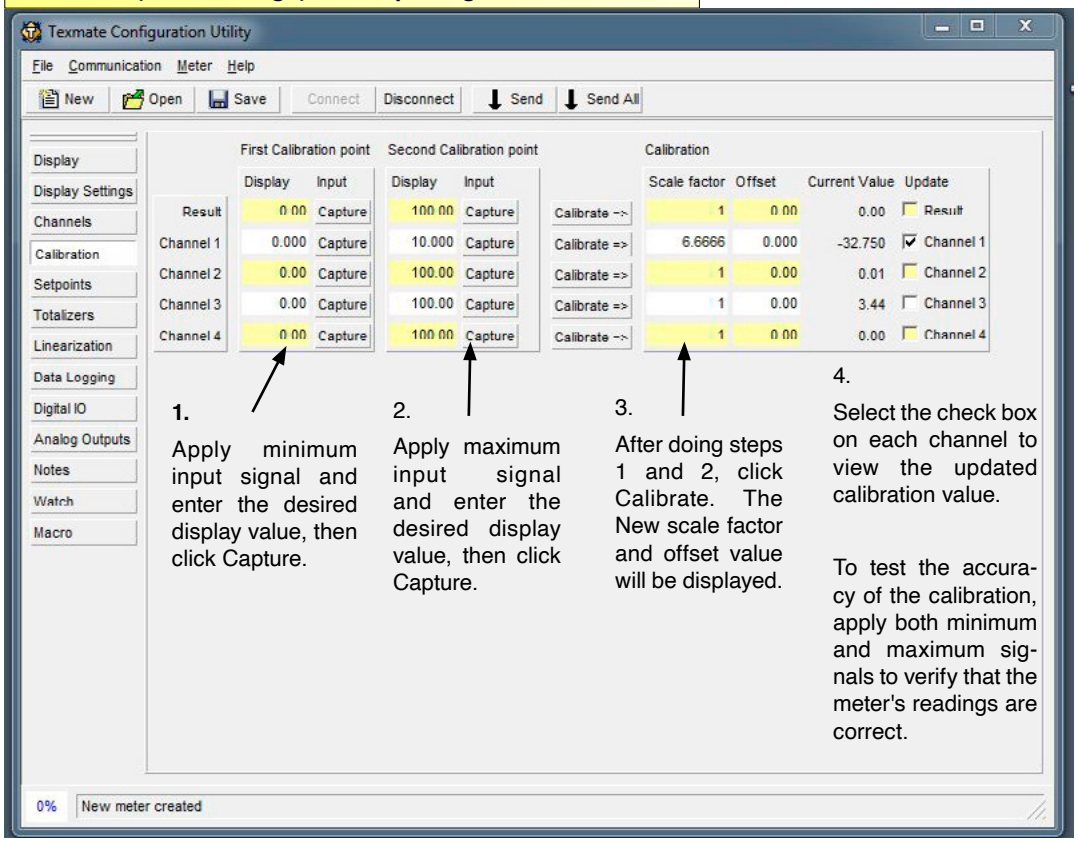
Operational Display

Configure Totalizer Settings Using Tiger Meter/Controller Configuration Utility software

***Example 1* configurations:**

If you are using Texmate's free Tiger Meter/Controller Configuration Utility software, please find the reference screenshots below.

Two Point (Low and High) Rate Input Signal Calibration



1.

Apply minimum input signal and enter the desired display value, then click Capture.

2.

Apply maximum input signal and enter the desired display value, then click Capture.

3.

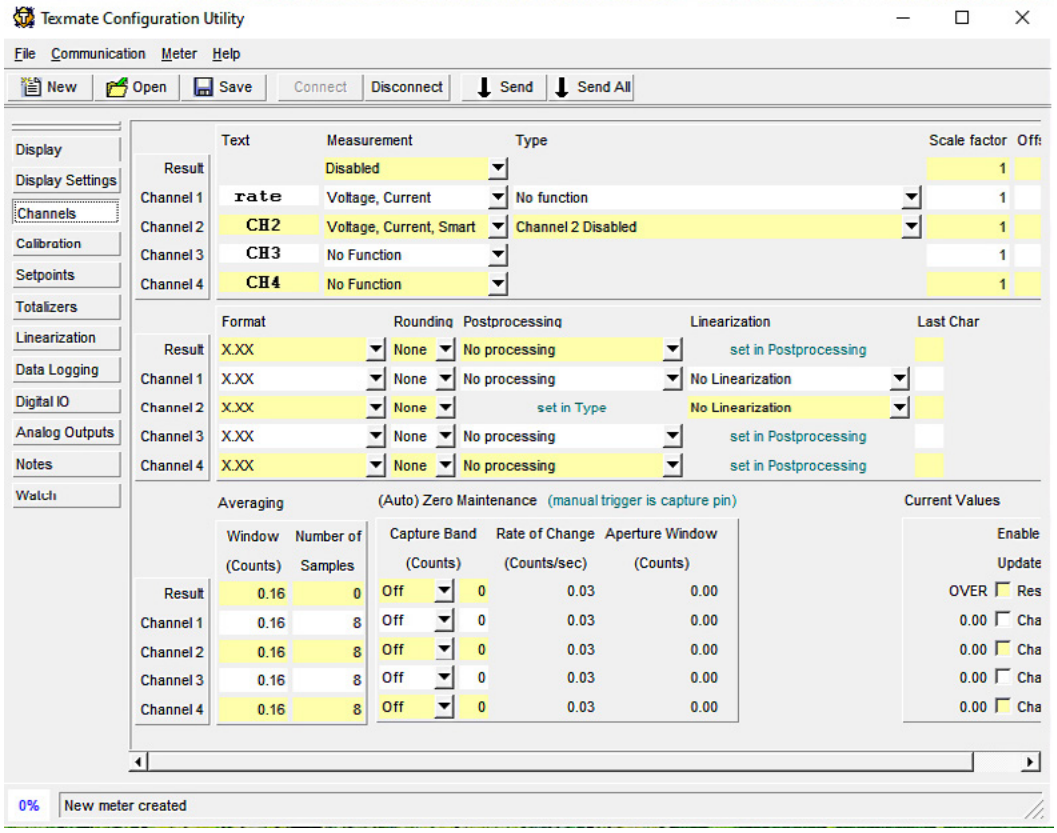
After doing steps 1 and 2, click Calibrate. The New scale factor and offset value will be displayed.

4.

Select the check box on each channel to view the updated calibration value.

To test the accuracy of the calibration, apply both minimum and maximum signals to verify that the meter's readings are correct.

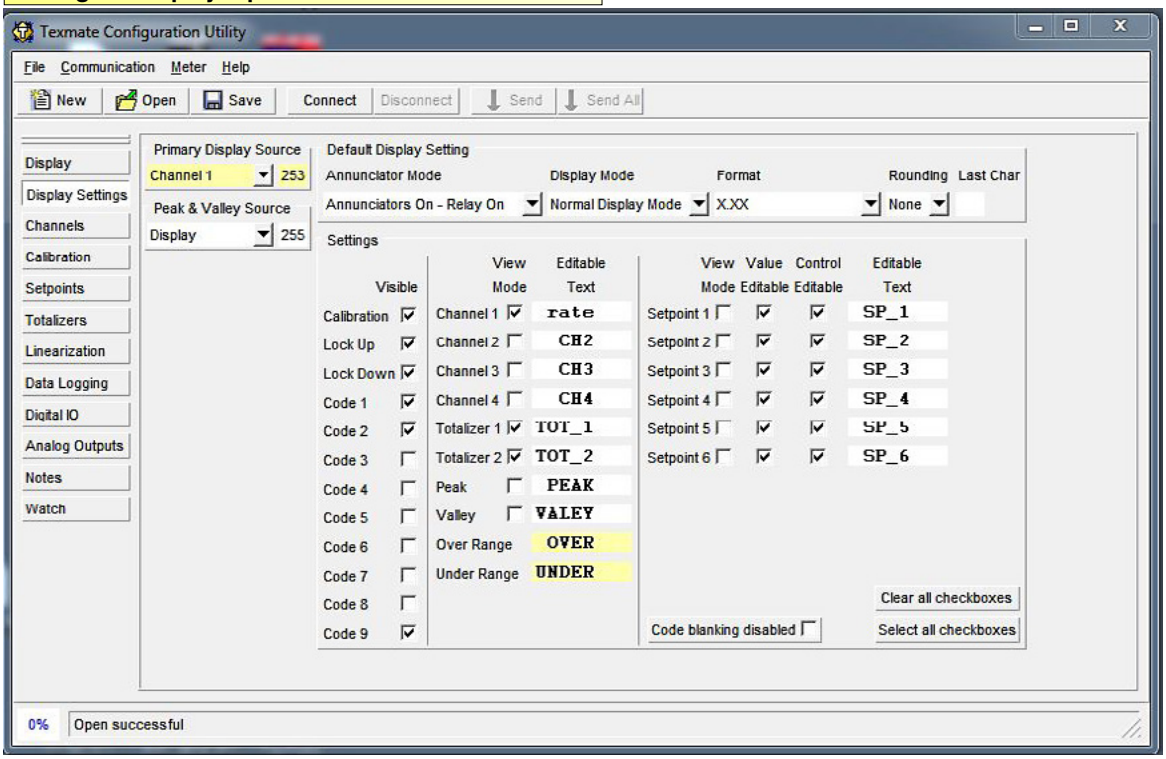
Configure Display Resolution Format Procedure p.6



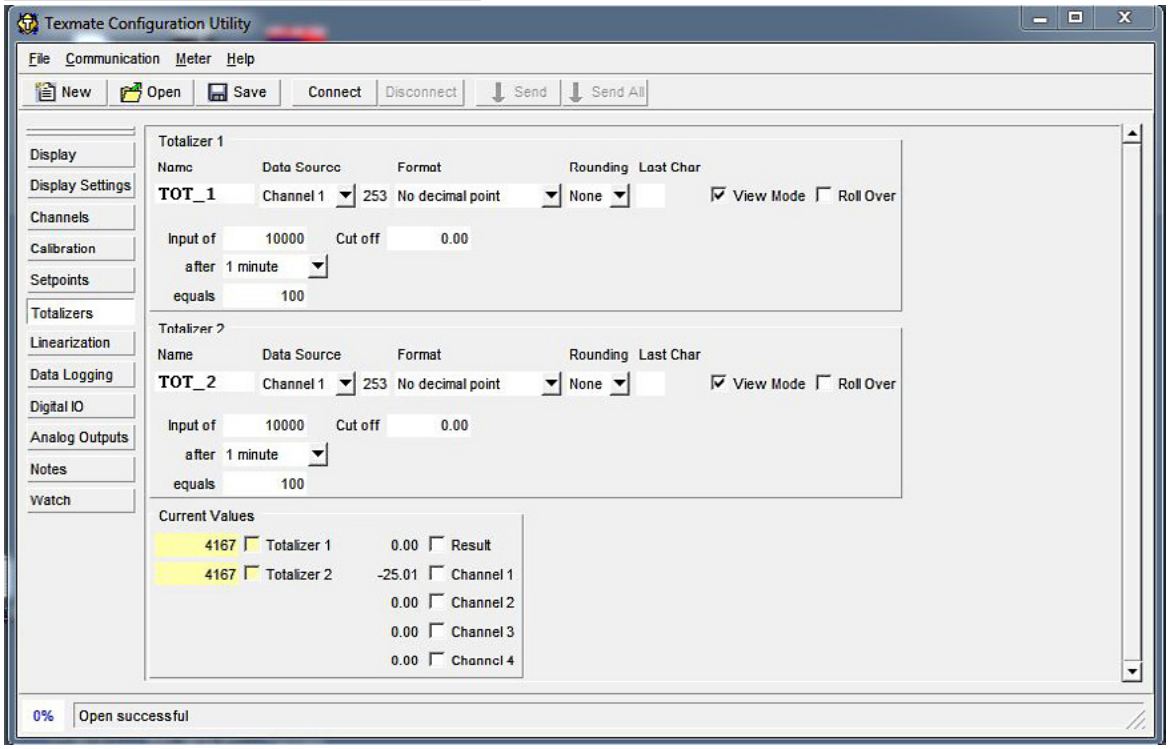
Configure Totalizer Settings Using Tiger Meter/Controller Configuration Utility software

To download this free Tiger Meter/Controller Configuration Utility software, please visit texmate.com and navigate to Downloads > Software.

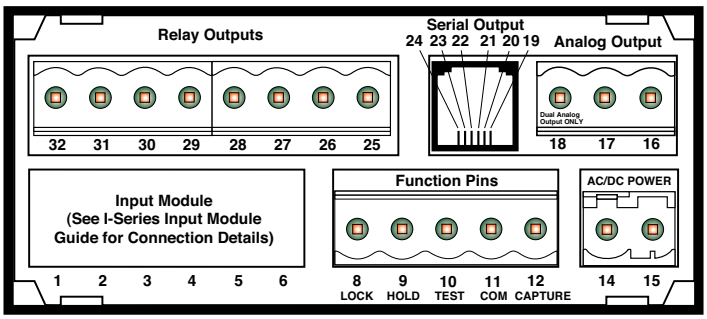
Configure Display Input Data Source



Configure Totalizer 1 and Totalizer 2

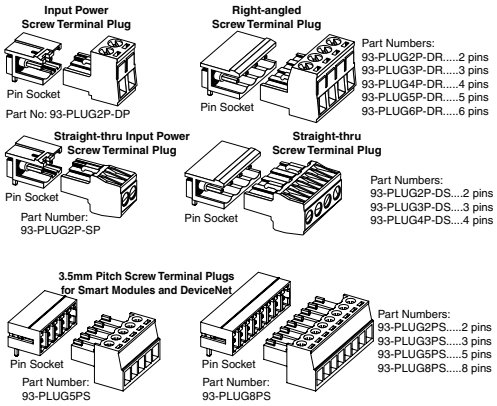


Rear Panel Pinout Diagram



WARNING: AC and DC input signals and power supply voltages can be hazardous. Do Not connect live wires to screw terminal plugs, and do not insert, remove or handle screw terminal plugs with live wires connected.

NOTE: The meter uses plug-in type screw terminal connectors for most input and output connections and an RJ-6 phone connector for the optional RS-232 or RS-485 serial outputs.



Input Signal – Pins 1 to 6

See the *I-Series Input Modules Guide (Z87)* for connection details of all input modules. On most single input signal conditioners, usually Pin 1 is the signal high pin (Hi +) and Pin 3 is the signal low pin (Lo –).

Function Pins – Pins 8 to 15

Pin 8 – Program Lock. By connecting the PROGRAM LOCK pin to the COMMON pin (pin 11 on the main PCB), the PROGRAM LOCK pin allows the meter's programmed parameters to be viewed but not changed.

Pin 9 – Hold Reading. By connecting the HOLD READING pin to the COMMON pin (pin 11), the HOLD READING pin allows the meter's display to be frozen. However, A/D conversions continue and as soon as pin 9 is disconnected from pin 11 the updated reading is instantly displayed.

Pin 10 – Display Test and Reset. The DISPLAY TEST and RESET pin provides a test of the meter's display and resets the microprocessor when the DISPLAY TEST and RESET pin is connected to the COMMON pin (pin 11).

Pin 12 – Capture. The CAPTURE pin (pin 12) can be activated by a very short logic low input or by connecting to the COMMON pin (pin 11). The CAPTURE pin can be programmed as a setpoint/relay activation source for any selected setpoint to trigger any designed setpoint function or for macro control applications. See Setpoint Control Settings on page 42 in the Setpoint Programming Mode second digit [X2X] .

Pin 11 – Common. To activate the HOLD, TEST and RESET, or LOCKOUT pins from the rear of the meter, the respective pins have to be connected to the COMMON pin.

Pins 14/15 – AC/DC Power Input. These are the pins that supply power to the meter. See Power Supply for details of the standard and optional low voltage power supply.

Chassis Ground Tab. Only on versions with metal sheath casing.

Installation

1. Install and wire meter per local applicable codes/regulations, the particular application, and good installation practices.

2. Install meter in a location that does not exceed the maximum operating temperature and that provides good air circulation.

3. Separate input/output leads from power lines to protect the meter from external noise. Input/output leads should be routed as far away as possible from contactors, control relays, transformers and other noisy components. Shielding cables for input/output leads is recommended with shield connection to earth ground near the meter preferred.

4. A circuit breaker or disconnect switch is required to disconnect power to the meter. The breaker/switch should be in close proximity to the meter and marked as the disconnecting device for the meter or meter circuit. The circuit breaker or wall switch must be rated for the applied voltage (e.g., 120VAC or 240VAC) and current appropriate for the electrical application (e.g., 15A or 20A).

5. See *Case Dimensions section* for panel cutout information.

6. See *Connector Pinouts section* for wiring.

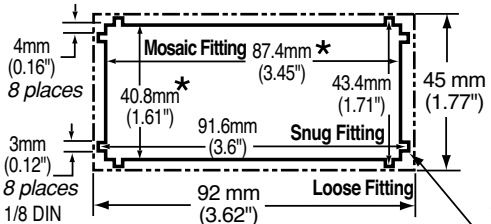
7. Use 28-12 AWG wiring, minimum 90˚C (HH) temperature rating. Strip wire approximately 0.3 in. (7-8 mm).

8. Recommended torque on all terminal plug screws is 4.5 lb-in (0.51 N-m).

Case Dimensions

PANEL CUTOUT

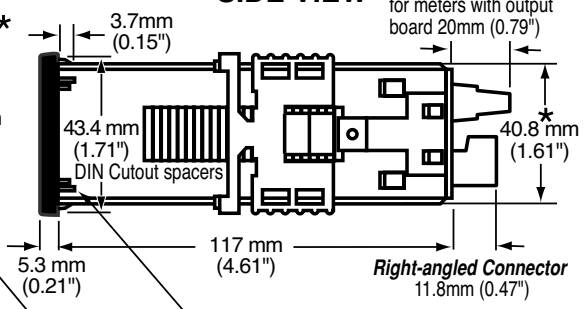
Case will mount in standard 1/8 DIN cutouts *

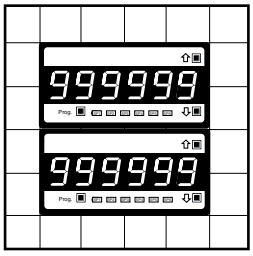


* These dimensions are increased by 1.6mm (0.06") when the ***metal surround case*** is installed.

SIDE VIEW

Straight-thru Connector for meters with output board 20mm (0.79")



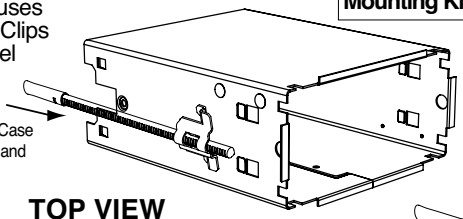


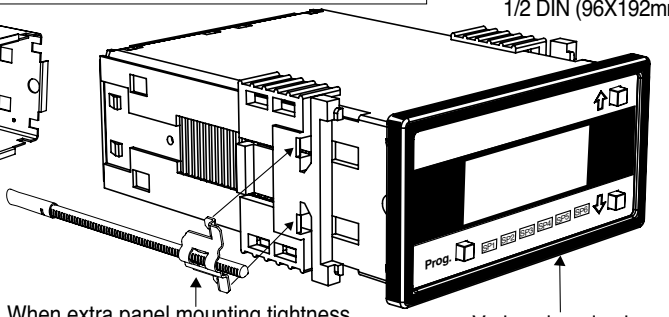
The 96x48mm case is particularly suitable for mounting in mosaic panels or insulative panels up to 2" thick. They can also stack mount, 2 up in existing cutouts for 1/4 DIN (96x96mm) or 4 up in 1/2 DIN (96X192mm).

For extra strength in portable applications, the 8 DIN spacers should be snipped off and the **Mosaic fitting** cutout used. Alternatively, the **High Strength Panel Mounting Kit** (Part # OP-PMA96X48) can be used.

Metal Surround Case
P/N:(OP-MTL96X48) uses Metal Screw Mount Clips and has a max. panel thickness mounting of 15.5 mm (0.61").

NOTE: The Metal Surround Case is pre-installed at the factory and cannot be removed without damage to the case.

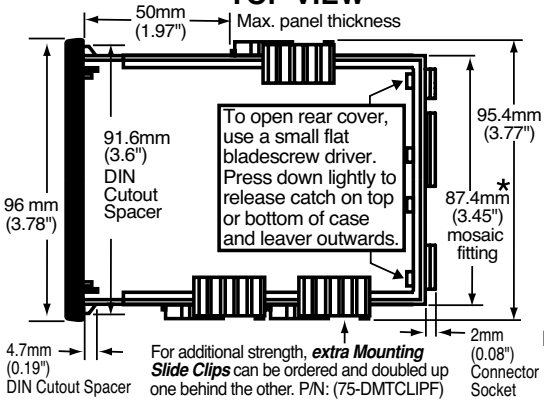


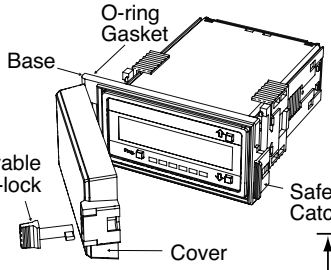


When extra panel mounting tightness is required, order the optional ***screw mount clip***. P/N:(OP-MTLCLIP)

Various bezel colors are available. Black is standard.

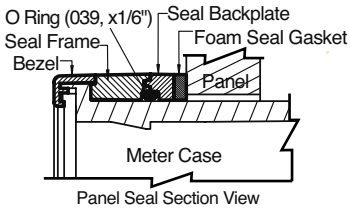
TOP VIEW



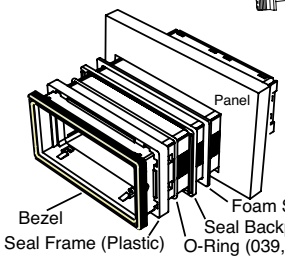


Clear Lockable NEMA 4X Splash Proof Cover
P/N:(OP-N4/96x48)

96x48 Panel to Case Seal Adaptor Kit
P/N: OP-PMA96X48

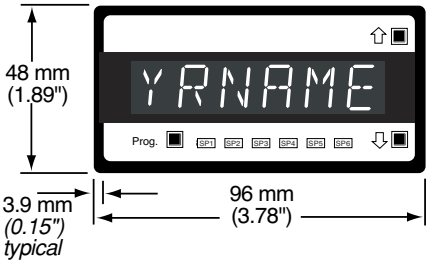


Panel Seal Section View



Panel adaptor plates are available to retrofit most existing panel cutouts.

FRONT VIEW
1/8 DIN 96x48mm



Supplements to Data Sheet / User Manual are Generic to all Tiger 320 I-Series Models

Generic to all Tiger 320 Series models, each supplement provides in-depth technical and procedural information on all individual meter modules, functions, or applications.

Listed are the supplements which are currently available:

Please visit our website's User Manual Suppliments to download supplements.

https://www.texmate.com/manuals

- Advanced Calibration and On DEMAND Mode (NZ203)
- Analog Output Modules (NZ200)
- Linearizing Functions (NZ207)
- Serial Communications Output Modules (NZ202)
- Setpoints & Relays (NZ201)
- Totalizing & Batching Functions (NZ208)
- Meter Registers (for Macro Programming) (CA101)
- Configuration Utility Program (Runs on PC)

WARRANTY

Texmate warrants that its products are free from defects in material and workmanship under normal use and service for a period of one year from date of shipment. Texmate's obligations under this warranty are limited to replacement or repair, at its option, at its factory, of any of the products which shall, within the applicable period after shipment, be returned to Texmate's facility, transportation charges pre-paid, and which are, after examination, disclosed to the satisfaction of Texmate to be thus defective. The warranty shall not apply to any equipment which shall have been repaired or altered, except by Texmate, or which shall have been subjected to misuse, negligence, or accident. In no case shall Texmate's liability exceed the original purchase price. The aforementioned provisions do not extend the original warranty period of any product which has been either repaired or replaced by Texmate.

USER'S RESPONSIBILITY

We are pleased to offer suggestions on the use of our various products either by way of printed matter or through direct contact with our sales/application engineering staff. However, since we have no control over the use of our products once they are shipped, NO WARRANTY WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE is made beyond the repair, replacement, or refund of purchase price at the sole discretion of Texmate. Users shall determine the suitability of the product for the intended application before using, and the users assume all risk and liability whatsoever in connection therewith, regardless of any of our suggestions or statements as to application or construction. In no event shall Texmate's liability, in law or otherwise, be in excess of the purchase price of the product.

Texmate cannot assume responsibility for any circuitry described. No circuit patent or software licenses are implied. Texmate reserves the right to change circuitry, operating software, specifications, and prices without notice at any time.

TEXMATE Measurement Control Automation Since 1976 MADE IN THE USA

1934 Kellogg Ave., Carlsbad, CA 92008
Tel: 1-760-598-9899 • USA 1-800-839-6283 • 1-800-TEXMATE
• Email: orders@texmate.com • Web: www.texmate.com