



Microflex 101-0095 Field Tools Loop Tap User Manual

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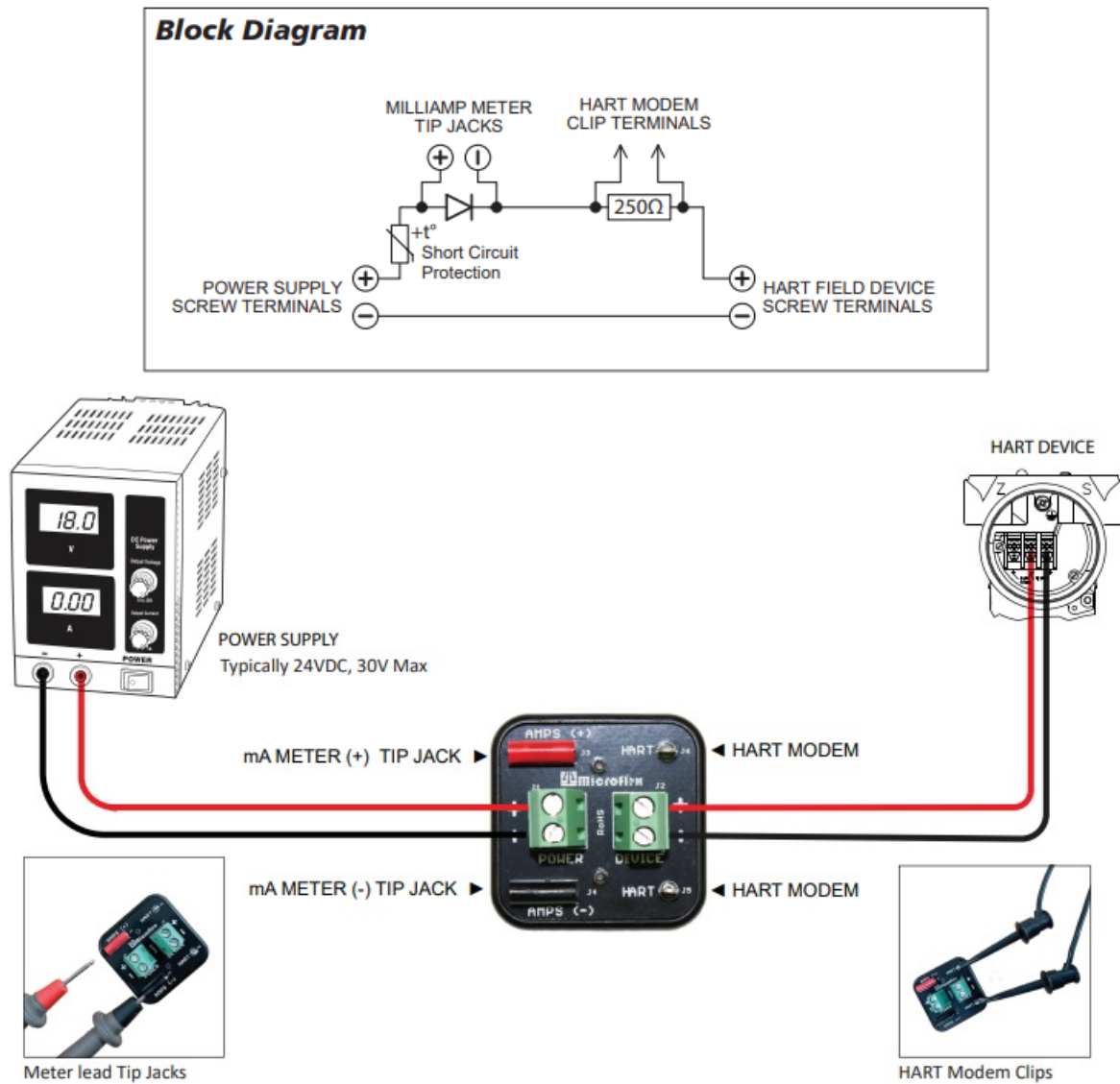
Microflex 101-0095 Field Tools Loop Tap



- Fast and Easy loop transmitter test setup
- Reliable connections – No Alligator Clips

- Includes loop resistor
- HART modem clip terminals – simple modem connection
- Current meter trip jacks – connect/disconnect current meter without breaking the loop
- Compact durable enclosure stands up to rugged field use
- PTC short circuit / over current protection

Block Diagram



Specifications

POWER Supply Input

Volts Typical 24V DC
Volts Maximum..... 30V DC
Short Circuit / Overload Protection 50mA Hold, 150mA Trip
Wire Screw Terminals 26AWG to 14AWG

Loop Device

Wire Screw Terminals 26AWG to 14AWG

AMPS - Meter Tip Jacks

Diode Voltage Drop 1V Typ
Diode Leakage Current..... 5nA Max
Tip Jacks Accept Standard .080" [2.03mm] Meter Leads
Red (+), Black (-)

HART Protocol Support

Connection Type Accepts Modem Mini-Grabbers (.098" x .063" hole)
Loop Resistor 250Ω +/-1%

Enclosure

Molded ABS Plastic with FR4 Circuit Board - RoHS Compliant
Weight 0.5 ounces
Enclosure Dimensions 1.57" x 1.57" x 0.79"

Environmental

Operating Temperature -30°C to 50°C (-22°F to 122°F)
Storage Temperature -40°C to 70°C (-40°F to 158°F)
Humidity 0 to 95% (non-condensing)

- **Power**

Connect the screw terminals marked POWER to a DC power supply. Loop powered devices typically use a 24 volt DC supply capable of at least 30 milliamps.

- **Device**

Connect the screw terminals marked DEVICE to the loop powered field device. Observe polarity while making the connections. There is no need to add a loop resistor – Loop Tap includes this resistor internally.

- **Measuring Loop Current**

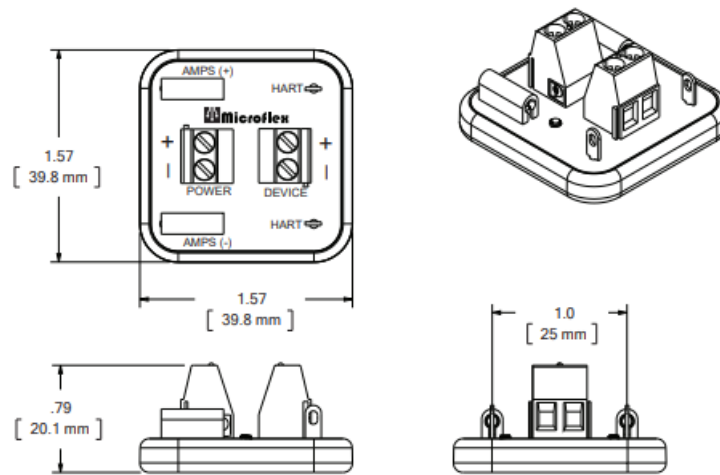
Loop Tap includes test lead tip jacks to simplify connection to a DC current meter for loop current measurements. An internal diode allows the meter to be connected or disconnected without interrupting the loop supply or opening the loop. Set the test meter to measure milliamps before connecting. Connect your test meter by inserting the meter lead ps into the trip jacks; red positive, black negative.

Current meters with more than 1 volt drop across the meter may not read current accurately. Verify that your test meter is compatible before performing transmitter calibrations.

HART Protocol Modem Connections

A HART modem or HART communicator can be connected to the Loop Tap using the two terminals provided. The terminals allow standard HART modem mini-clips to be easily connected across the internal 250 ohm loop resistor.

Dimensions



Limited Warranty

- Microflex, LLC warrants this unit against defects in materials and workman-ship for a period of one year from the date of shipment. Microflex, LLC will, at its option, repair or replace equipment that proves to be defective during the warranty period. This warranty includes parts and labor.
- A Return Authorization (RA) number must be obtained from the factory and clearly marked on the outside of the package before equipment will be accepted for warranty work.
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Documents / Resources

	<p>Microflex 101-0095 Field Tools Loop Tap [pdf] User Manual 101-0095, Field Tools Loop Tap, Loop Tap</p>
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