

User's Guide



3000A Flexible Current Probe Set

Model 382098



Introduction

Congratulations on your purchase of the Extech 382098 Flexible Current Probe Set for use with Model 382095 Power and Harmonics Analyzer. These probes can fit around cable bundles, bus bars and other locations where the use of traditional current clamps would be prohibitive. Careful use of this device will provide years of reliable service.

NOTE: The 382098 flexible current probes have a maximum input of 3000A however the maximum input current of the 382095 Power and Harmonics Analyzer is 1000A.

Safety

E N 61010-2-032



CAT III 600V Pollution Degree 2

Safety Symbols



Caution: Refer to Accompanying Documents



Caution: Risk of Electric Shock



Double Insulation

WARNING: This indicates that a potentially hazardous condition which, if not avoided, could result in death or serious injury.

PER IEC1010 OVERVOLTAGE INSTALLATION CATEGORY

OVERVOLTAGE CATEGORY I

Equipment of OVERVOLTAGE CATEGORY I is equipment for connection to circuits in which measures are taken to limit the transient overvoltages to an appropriate low level.
Note – Examples include protected electronic circuits.

OVERVOLTAGE CATEGORY II

Equipment of OVERVOLTAGE CATEGORY II is energy-consuming equipment to be supplied from the fixed installation.
Note – Examples include household, office, and laboratory appliances.

OVERVOLTAGE CATEGORY III

Equipment of OVERVOLTAGE CATEGORY III is equipment in fixed installations.
Note – Examples include switches in the fixed installation and some equipment for industrial use with permanent connection to the fixed installation.

OVERVOLTAGE CATEGORY IV

Equipment of OVERVOLTAGE CATEGORY IV is for use at the origin of the installation.
Note – Examples include electricity meters and primary over-current protection equipment

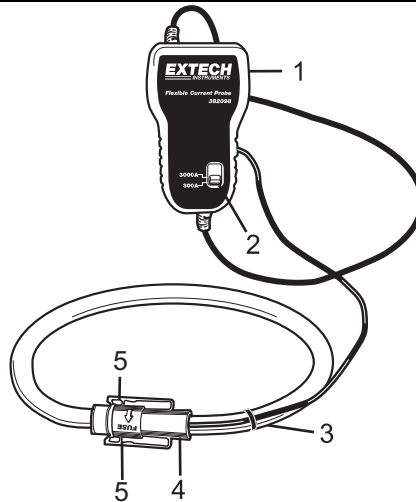
SAFETY INSTRUCTIONS

This flexible current probe has been designed for safe use, but must be operated with caution. If the flexible probe is used in a manner not specified by the manufacturer, the protection provided by the flexible current probe may be impaired. Read and understand the manual before use.

1. **WARNING:** Improper use of this meter can cause damage, shock, injury or death.
2. Don't install the flexible current probe around bare conductors carrying a voltage from 30V to 600V unless you are wearing protective clothing and gloves suitable for high-voltage work.
3. Always inspect and check any damage of the current probe assembly before usage. Don't use the flexible current probe if any damage is found.
4. Don't use the flexible current probe on circuit rated higher than 600V in installation category III.

Description and Controls

1. Control Box
2. Current Range Selection Switch
3. Flexible Loop
4. Coupling Assembly
5. Latch, Press to Release



Operating Instructions

WARNING: Risk of electrocution. High-voltage circuits, both AC and DC, are very dangerous and should be measured with great care. Always wear safety gloves when operating this device.

1. Connect the flexible current probes to the 382095 Power and Harmonics Analyzer. Select the corresponding sensitivity in the setup mode of the instrument. For more detailed information, see the 382095 operator's manual.
2. On the flexible current probes' control box, select the desired range. **Note:** All clamps must be set to the same range.
3. Connect the flexible probes around the conductors to be measured.
4. Make sure the current flow direction is consistent with the arrow marked on the probe coupling.
5. For proper operation, the probe coupling must be kept more than 1" (25mm) away from the conductor.

Specifications

Probe Length:	24" (610mm)
Range Selection:	300A, 3000A
Minimum Bending Diameter	1.37" (35mm)
Connector Diameter	0.9" (23mm)
Cable Diameter	0.55" (14mm)
Cable Length	6.7"/170mm (probe to box) 6.7"/170mm (box to output)
Dimensions (box):	5.1" (L) x 3.1" (W) x 1.7" (H) 130mm (L) x 80mm (W) x 43mm (H)
Weight:	14.4 oz. (410g)
Operating Temperature:	14 to 185°F (-10°C to 85°C)
Operating Humidity:	< 85% relative humidity
Altitude:	< 2000 meters
Storage Temperature:	-4 to 185°F (-20°C to 85°C)
Storage Humidity:	< 85% relative

Note: For complete specs refer to the 382095 Power & Harmonics Analyzer User's Manual.

Warranty

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies to sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 ext. 210 for authorization or visit our website www.extech.com for contact information. A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.



Support Hotline (781) 890-7440

Tech support: Ext. 200; Email: support@extech.com

Repair>Returns: Ext. 210; Email: repair@extech.com

Product specifications subject to change without notice

For the latest version of this User's Guide, Software updates, and other up-to-the-minute product information, visit our website: www.extech.com
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