

INTRODUCTION

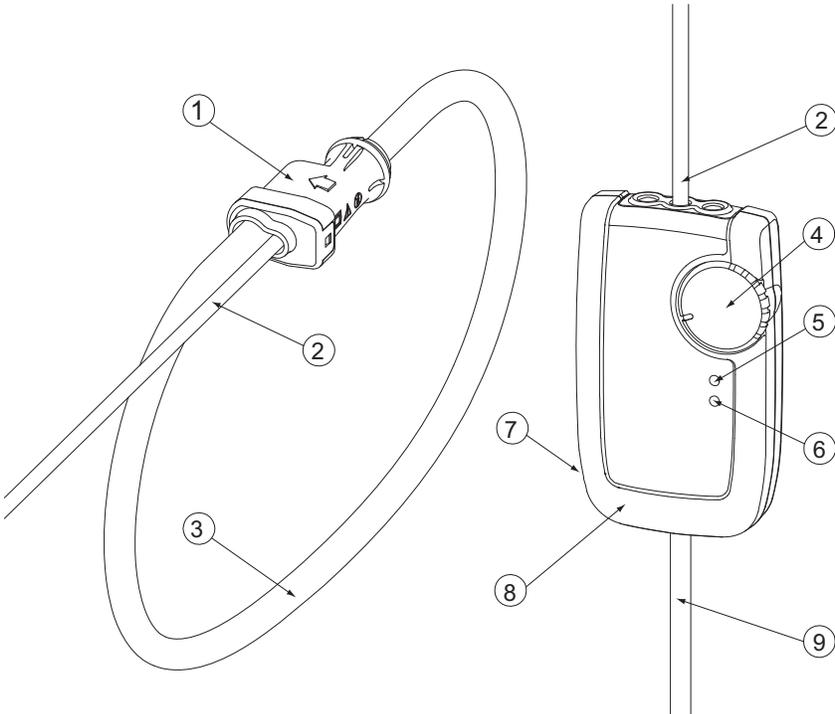


FIG 1

- 1. Probe Coupling
- 2. Probe Output Cable
- 3. Flexible Current Probe
- 4. Power On / Range Switch
- 5. RED LED – Overload
- 6. ORANGE LED – Low Battery
- 7. External Power Supply Input
- 8. Integrator Housing
- 9. Output Cable

These optional current probes allow current measurements in the range of 0.5 Amps to 3000A full scale or 0.5 Amps to 6000A full scale for use with the PX5, 4400, Signature System DataNode with TRTO55 cable adapter (DB P/N 116817-G1), and Encore Series 61000 System with TRTO55 cable adapter or 61MAC current probe module.

There are several current probe models available as follows.

- **30 / 300 / 3000A**

DRANFLEX 3000XL/24	24 inch length
DRANFLEX 3000XL/36	36 inch length
DRANFLEX 3000XL/48	48 inch length

- **60 / 600 / 6000A**

DRANFLEX 6000XL/24	24 inch length
DRANFLEX 6000XL/36	36 inch length
DRANFLEX 6000XL/48	48 inch length

SPECIFICATIONS

- Accuracy at 50 to 60Hz:

<i>Amplitude</i>	<i>10%-100% of full scale of probe range</i>
30 / 300 A Range	$\pm 1\%$ of reading $\pm 0.1A$
3000 A Range	$\pm 1\%$ of reading $\pm 1A$
60 / 600 A Range	$\pm 1\%$ of reading $\pm 0.1A$
6000 A Range	$\pm 1\%$ of reading $\pm 1A$

Note: Overall measurement accuracy is the probe accuracy plus the instrument accuracy. Refer to the applicable Dranetz-BMI instrument User's guide for measurement accuracy for the instrument you are using.

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|--------------------------|----------------|
| <i>Phase (45 – 65Hz)</i> | ± 1 degree |
|--------------------------|----------------|
- Rated Voltage 1000 V Maximum
 - Output Signal
 - Ranges 30 / 300 or 3000A 1.5VRMS
 - Ranges 60 / 600 or 6000A 1.5VRMS
 - Frequency Range 10 to 10kHz (-1dB)
 - Maximum Conductor Size
 - 24 inch probe length conductor(s) up to 8 inch diameter
 - 36 inch probe length conductor(s) up to 11 inch diameter
 - 48 inch probe length conductor(s) up to 17 inch diameter
 - Environmental
 - Operating Temperature*
 - 20°C to + 65°C
 - 0-90% Relative Humidity (non-condensing)
 - Storage Temperature*
 - 40°C to + 75°C
 - Altitude* 2000m (6560ft) maximum)
 - Installation Category III, Pollution Degree 2*

- Degree of Protection Probe IP65, (not certified by UL), Enclosure IP40

- Power Supply
2 x AA MN1500 LR6 Alkaline Batteries,
(2000 hours of continuous operation).

OR External power supply (3V/100mA)

- Safety Standards
EN 61010-1:2001
EN 61010-031:2002
EN 61010-2-032:2002

30V maximum between Output and Earth

- EMC EN 61326-2-2 :2006

Rated for continuous use.

Enclosure Material ARNITE T06-200SNF, UL94 V0

Probe Material Alcryn 2070 NC, LATI LATENE 7H2W V0