

# POWER MONITORING & PROTECTION



## ROPECT AC CURRENT SENSOR RCT-1800 SERIES



### DESCRIPTION

The **Magnelab RCT-1800 Series (RopeCT)** AC current sensor is based on the Rogowski principle of mutual inductance, which allows accurate measurement of AC current in a flexible medium. The resulting rope-like CT is highly accurate throughout its range and is easy to install by snaking it around parallel conductors or buswork. The **RopeCT** is both the ultimate in convenience and, often, the only solution to tough installation situations.

### FEATURES

- Available in 250A to 5000A ratings
- Phase angle error < 0.5 degrees measured at 50% rated current
- 0-0.333 VAC safe output, no shorting switches required
- Eight-foot twisted pair leads
- One percent accuracy from 10 to 300 percent of rating



RCT-1800-1000



| SPECIFICATIONS    |                           |
|-------------------|---------------------------|
| Supply Voltage    | 12 to 30 VAC/VDC          |
| Secondary Voltage | 0-0.333 V                 |
| Insulation Class  | 600V                      |
| Primary Current   | 250A to 5000A             |
| Frequency         | 50 to 10,000 Hz           |
| Accuracy          | ±1%                       |
| Lead Wires        | 8' twisted pair leads     |
| Rope Length       | 48"                       |
| Weight            | 0.4 lb (0.18 Kg)          |
| Approvals         | CE, UL File #E96927, RoHS |
| Warranty          | 1 year                    |

### WIRING

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### ORDERING INFORMATION

| MODEL         | DESCRIPTION  |
|---------------|--|
| RCT-1800-0250 | 250A, 18-inch Rogowski coil flexible current sensor  |
| RCT-1800-0500 | 500A, 18-inch Rogowski coil flexible current sensor  |
| RCT-1800-1000 | 1000A, 18-inch Rogowski coil flexible current sensor |
| RCT-1800-2000 | 2000A, 18-inch Rogowski coil flexible current sensor |
| RCT-1800-3000 | 3000A, 18-inch Rogowski coil flexible current sensor |
| RCT-1800-4000 | 4000A, 18-inch Rogowski coil flexible current sensor |
| RCT-1800-5000 | 5000A, 18-inch Rogowski coil flexible current sensor |