# AT/ATR-LS SERIES

# **AC Current Transducers**

AT/ATR-LS Series Current Transducers combine a current transformer and signal conditioner into a single package. The large, easy-to-install, split-core design allows for installation over existing conductors without the need to disconnect the load (a programmable logic controller, a panel meter, or a data acquisition system), even in applications where there are multiple conductors per phase. For new installations, the installation is just as easy. Just remove the top portion of the sensing ring, place the conductors inside, and snap the top back in place. The transducer uses two wires to connect to the power supply and the load (a programmable logic controller, a panel meter or a data acquisition system).



#### **Monitor Large Machines**

• Measure the current use to detect over or undercurrent conditions before they cause break downs.

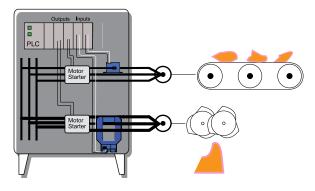
#### **Water Delivery and Treatment**

- · Detect open discharge lines.
- See clogged filters or blocked intake to pumps.

#### Generators

• Keep the power system running by monitoring the output.

#### Grinder/Shredder Application



 For additional Application Examples, go to www.nktechnologies.com/applications



#### **AC Current Transducer Features**

# **Industry Standard Output**

- 4–20 mA signal proportional to the AC current.
- · Compatible with most automation systems.

### Loop-powered

 Use the "live zero" output to verify proper connections (sensor output with no current flowing confirms the system is ready to go).

#### **Factory Calibrated**

• Eliminates zero and span potentiometer adjustment.

#### **Split-core Case**

 Sensing window provides ample space for bus bar, single or multiple conductors.

#### **DIN Rail Mounted Case\***

• Simple snap onto DIN rail for secure mounting.

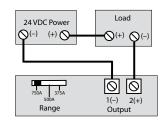
#### **UL/cUL Approved**

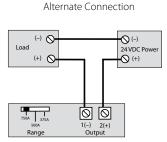
· Accepted worldwide.

\*For information on the DIN rail accessories kit, see page 128.

# **AC Current Transducer Connections**

Standard Connection





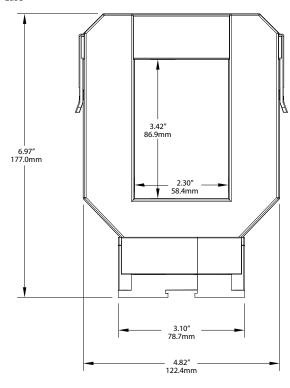


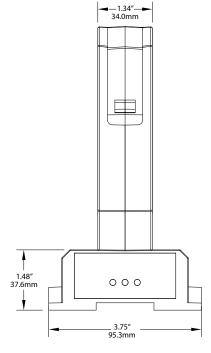




#### **AC Current Transducer Dimensions**

LS Case





Note: Drawings are not to scale

# **AC Current Transducer Specifications**



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# **AC Current Transducer Ordering Information**

Sample Model Number: ATR10-420-24L-LS

AC current transducer, 0–1000 A range, True RMS output 4–20 mA, loop-powered, large split-core case, DIN rail mounting.



# (1) Measurement

	Average responding (blank)
R	True RMS responding output for distorted current

#### (2) Range

	8	0-800 A
	10	0–1000 A
	12	0–1200 A
	16	0–1600 A

#### (3) Output Type

420	4-20 mA
720	T 20111/1

## (4) Power Supply

## (5) Case Style

LS	Split-core, base terminals, DIN rail mounting
LJ	DDIIL-COIE, Dase LEITHIHAIS, DIIN TAILITIOUTILITY



