NK Technologies

MADE IN USA

APN & APO Series Power Transducers feature the patented Autophase™ technology, which helps to correct common wiring errors ranging from CT reversal to phase mismatch.

Analog 4–20mA or 0–5/10VDC (proportional to kW) and pulse kWH outputs are available as standard options; RS232 outputs are optional in either configuration.

APN & APO SERIES
Power Monitors

Applications

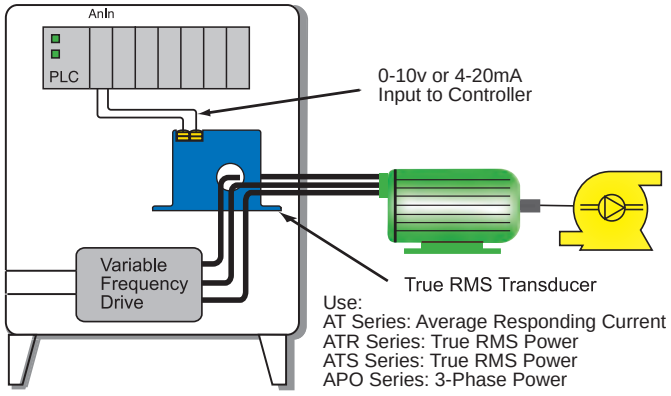
Cost Allocation
- Measure and display power, both demand (KW) and consumption (KWH).

Improve Plant Performance
- Measure and correct low power factor.
- Measure and stop erratic machine operation and overheats; extending equipment life.

Machine Control
- KW monitoring provides a good picture of machine tool operation.

Generator Performance
- A cost-effective way to monitor power output from backup generators, ensuring "information age" standard.

Pump Load Monitoring



Features

Meter Grade Digital Accuracy
- Provides for reliable measurement.

Patented AutoPhase™ Technology
- Senses and automatically corrects for errors in CT orientation or mismatches between voltage inputs and CTs, identifying the reversed CTs and mismatched phases.

Compatible with a Wide Variety of CTs
- APO/APN Series KWH meters accept inputs from traditional existing 5A CTs or from ProteCT™ 0.333V output CTs which improve safety and eliminate the need for costly shorting blocks.

Available in Quick-mount NEMA-rated Enclosures
- Installation is simple and efficient.

Networked Options
- MODBUS option allows for direct network connection without the need for expensive system interfaces.

Agency Approved.
- UL and CUL listed.

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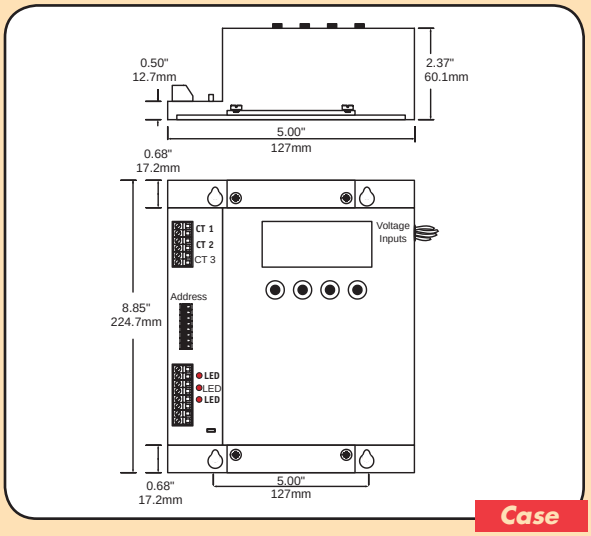
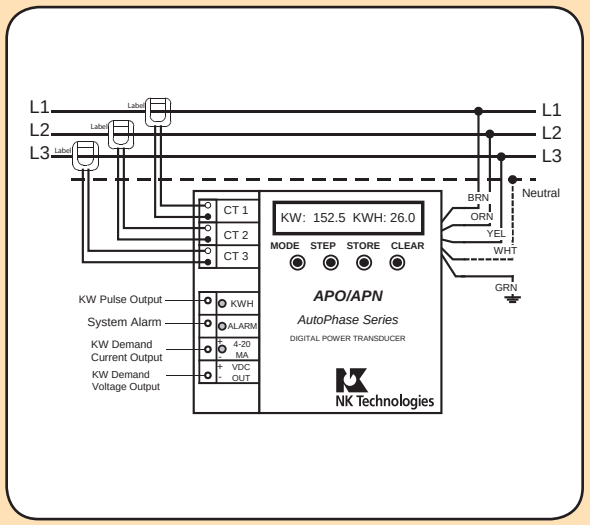
Dimensions



Case

Connections



Specifications

Power Supply	None—Self-powered
Accuracy	0.5% FS, True RMS Power +/- 0.5Hz
Voltage Range	120–600VAC, Auto Range Select, Up to 12KV with optional Potential Transformers
Amperage Range	● 5–1500A with ProteCT™ CTs ● 50–3000A with Current Output (5A) CTs
Isolation Voltage	3700VAC
Built-in Fuse Rating	600VAC, 0.5A (no external fuses required)
LCD Display	Two line, 16 character
Connections	● Voltage 12" leads, #18 AWG, pre-tinned ● Current Input: Captive screw terminal for 14–22 AWG wire ● Outputs: Captive screw terminal for 14–22 AWG wire* or 3-pin connector**
Digital Output	RS232 ASCII Data String (optoinal)
Analog Outputs*	● KW: Choice of two; 4–20mA and 0–5 or 0–10VDC ● Alarm Contact: N.O. solid state contact, 0.1A @ 30VAC/VDC (from 75–95% under voltage) ● KWH: Solid-state contact, 0.1A @ 30VAC/VDC; Range 0.01, 0.1, 1.0 or 10KWH per pulse
Listings	UL Listed (Measuring and Testing Equipment)

c UL us

Ordering Information

Sample Model Number: APN-R32-5A-MX-LM

AC power transducer with RS232 output, module for mounting inside a panel or switchgear with an LCD display.

	(1)		(2)				(3)		(4)		(5)	
AP		-				-		-		-	L	M

(1) AP Type

O	Non-networkable Power Transducer
N	Networkable Power Transducer

(2) Output Type

KWKH	KW (4–20mA & 0–10VDC) & KWH Pulse*
R232	RS232*

*APN type only

(3) CT Input

5A	5 Amp CTs (Ratio:5)
PC	ProtectCT low voltage output CTs

(4) Case Style

MX	Module (Aluminum)
MN	Module in NEMA 1 enclosure
M4	Module in NEMA 4 enclosure

(5) Display

LM	LCD on Module