

nVent ERIFLEX Power Meters & Software



The nVent ERIFLEX Network Analyzer is a compact and innovative instrument designed for precise measurement and recording of electrical parameters. It is particularly well-suited for energy consumption analysis and control.

Its quick and easy connection system makes it ideal for retrofitting existing switchboards or conducting energy audits. The analyzer is the perfect tool for establishing measurement points across a facility.

Communication is supported via an RS485 serial port using MODBUS RTU protocol (PM RS485 version) and an Ethernet port using MODBUS TCP protocol (PM Ethernet version).

Remote management is available through the free EriflexNET software. For Ethernet models, an integrated web interface allows full access and control from any PC connected to the network, offering a convenient and intuitive way to manage the device remotely. You can download the EriflexNET software from the Resources tab below.

CERTIFICATIONS



FEATURES

Ultra-compact DIN 96x96 format, with only 39 mm depth for space-constrained installations

Backlit LCD display for clear visibility of readings

Four-quadrant bi-directional measurement of all energy and power types

Comprehensive electrical parameter monitoring for cost-effective consumption analysis: Voltage, Current, Power: Active, Reactive, Apparent, Power Factor, Harmonics (Voltage and Current) – up to the 15th order, Frequency, Phase Order

Three selectable current scales for flexible configuration

Up to 8 MB of onboard memory for data logging, including energy counters

Selectable recording of up to 24 real-time parameters for MIN/AVG/MAX tracking

Communication options: MODBUS RTU via RS485 port, MODBUS TCP via Ethernet port

Remote management via free EriflexNET software or integrated web interface

Two digital outputs for alarm signaling or pulse emissions

One digital input for synchronizing Demand (DMD) calculations

Accuracy class 0.5 in compliance with IEC/EN 61557-12 for active power and energy

Flexible wiring: compatible with both single-phase and three-phase systems

Built-in integrator: no external integrator required, pre-calibrated for use with nVent ERIFLEX Rogowski coils

SPECIFICATIONS

Frequency:	45 - 65 Hz
Mounting Cutout:	91x91mm
Current Measurement Range:	500 A; 4000 A; 20000 A
Input Voltage:	600 VAC
Complies With:	2014/30/EU;2014/35/EU;EN 61010-1;EN 61010-2-030
Installation:	Indoor
IP Rating:	IP54;IP20
Frequency Accuracy:	±0.1% of Reading ±1 Digit within 45–65 Hz Range
Voltage Accuracy:	±0.2% of Reading within 10% FS to FS Range
Current Measurement Accuracy:	±0.4% of Reading within 5% FS to FS Range
Operating Temperature:	-25 to 55 °C
Storage Temperature:	-25 to 75 °C
Humidity:	80 % Max

Table 1/2

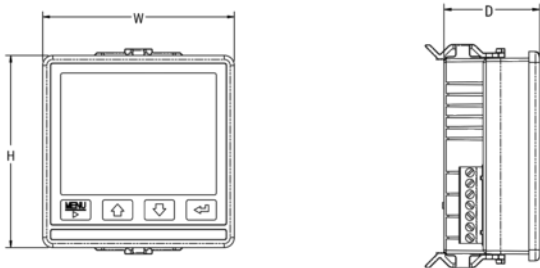
Catalog Number	Article Number	Width (W)	Height (H)	Depth (D)	Auxiliary Power Supply Voltage	Auxiliary Power Supply Frequency
PMETHERNET	509011	96mm	96mm	39mm	85-265 VAC / 110 VDC ±15%	50 - 60 Hz
PMRS485	509010	96mm	96mm	39mm	230 VAC ±15%	50 - 60 Hz

Table 2/2

Catalog Number	Article Number	Configuration	Data Transfer	Remote Operation	Operation	Unit Weight
PMETHERNET	509011	Ethernet for HTTP, MODBUS TCP Communication	10 - 100 Mbps	Yes	Web Server	0.26 kg
PMRS485	509010	RS485 for MODBUS RTU Communication	300 - 57600 bps	Yes	EriflexNET	0.33 kg

	PMETHERNET	PMRS485
Minimum voltage for FFT calculation	20/35 VAC (direct connection; multiplied by PT ratio when using PT)	
Starting current (Ist)	3A for FSA 500A 25A for FSA 4000A 120A for FSA 20000A	
Current Inputs	Rogowski coil inputs (3 coils, ordered separately)	
Wiring Modes	Compatible with both single-phase and three-phase systems	
Active power/energy accuracy	Class 0.5 per IEC/EN 61557-12	
Reactive power/energy accuracy	Class 2 per IEC/EN 61557-12	
Digital Outputs	Type: 2 x NPN, Passive Optoisolated Max Values: 27 VDC - 27 mA	
Digital Inputs	Type: Optoisolated Voltage Range: 80 - 265 VAC-DC	
Terminal wire diameters	Measuring Terminals: 2.5 mm ² / 14 AWG I/O, AUX, RS485 terminals: 1.5 mm ² / 16 AWG	

DIAGRAMS



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

North America

+1.800.753.9221

Option 1 – Customer Care

Option 2 – Technical

Support

Europe

Netherlands:

+31 800-0200135

France:

+33 800 901 793

Europe

Germany:

800 1890272

Other Countries:

+31 13 5835404

APAC

Shanghai:

+ 86 21 2412 1618/19

Sydney:

+61 2 9751 8500



Our powerful portfolio of brands:

CADDY

ERICO

HOFFMAN

ILSCO

SCHROFF

TRACHTE