

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.

认证



功能

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

技术参数

频率:	45 - 65 Hz
安装开孔:	91x91mm
电流测量范围:	500 A; 4000 A; 20000 A
输入电压:	600 VAC
符合:	2014/30/EU;2014/35/EU;EN 61010-1;EN 61010-2-030
安装:	室内
IP 等级:	IP54;IP20
频率精度:	±0.1% 读数精度 ±1 位 (45-65 Hz 频率范围内)
电压精度:	±0.2% 读数精度 (全量程的 10% 至全量程范围内)
电流测量精度:	±0.4% 读数精度 (全量程的 5% 至全量程范围内)
工作温度:	-25 to 55 °C
存储温度:	-25 to 75 °C
湿度:	80 % Max

Table 1/2

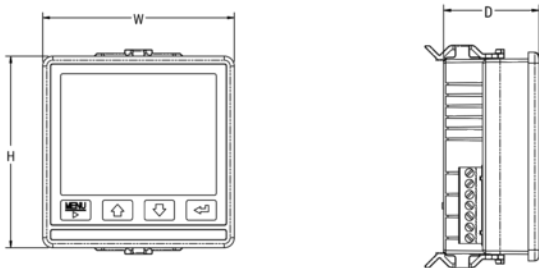
物料号	订货号	宽度 (W)	高度 (H)	深度 (D)	辅助电源电压	辅助电源频率
PMETHERNET	509011	96mm	96mm	39mm	85-265 VAC / 110 VDC ±15%	50 - 60 Hz
PMRS485	509010	96mm	96mm	39mm	230 VAC ±15%	50 - 60 Hz

Table 2/2

物料号	订货号	配置	数据传输	远程操作	操作	单位重量
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PMETHERNET	509011	支持 HTTP、MODBUS TCP 通信的以太网接口	10 - 100 Mbps	是	Web Server	0.26 kg
PMRS485	509010	支持 MODBUS RTU 通信的 RS485 接口	300 - 57600 bps	是	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	



警告

应仅根据 nVent 的产品说明书与培训材料安装并使用 nVent 的产品。可访问 www.nvent.com 获取说明书，或者向您的 nVent 客服代表索取。错误安装、使用不当、滥用或未能完全遵守 nVent

的说明与警告，可能会造成产品故障、财产损失、严重的人身伤害及死亡和/或使得保修服务无效。

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