



SFA™-200

STRAY FLUX ANALYSER UNIT

GENERAL SPECIFICATIONS

Operation

- Stray Flux Input
 - Number of Inputs 2
 - Input Impedance > 100 kΩ
 - Type Radial and Tangential¹
 - Bandwidth 10 kHz (-3 dB)
 - Sampling Rate 50 000 Samples/s
- Synchro Input
 - Nominal Input ± 24 V Max.
 - Signal Amplitude 5 V Peak to Peak Min.
 - Signal Frequency (determined by the rotational speed² of the turbogenerator):
 - Four-Pole Design: 1500 to 1800 Pulses Per Minute
 - Two-Pole Design: 3000 to 3600 Pulses Per Minute
 - Minimum Pulse Width 200 μs

Status Indicators and Outputs

- SYSTEM OK
 - Indicator Green / Orange LED
 - Relay Driver Bipolar FET³ (± 30 V Max. / 25 mA Max.)
- CHANNELS OK
 - Indicator Green / Orange LED
 - Relay Driver Bipolar FET³ (± 30 V Max. / 25 mA Max.)

Communication

- Ethernet
 - Protocol TCP/IP
 - Speed 100/1000 Base-T

Power Requirements

- Voltage 24 Vdc ± 15%
- Consumption 20 W
- Polarity Reversal Protection Built-in

Connection

- Power Input 3-Pos. Removable Terminal Block
- Ethernet RJ45
- Stray Flux Inputs 3-Pos. Removable Terminal Block
- Synchro Input 3-Pos. Removable Terminal Block
- Relay Drivers 5-Pos. Removable Terminal Block
- USB Port Type A, Female

Note 1: The MFP™-100 sensor detects radial magnetic field only.

Note 2: Two-pole or four-pole turbogenerator, on a 50 Hz or 60 Hz network.

Note 3: FET - Field Effect Transistor.



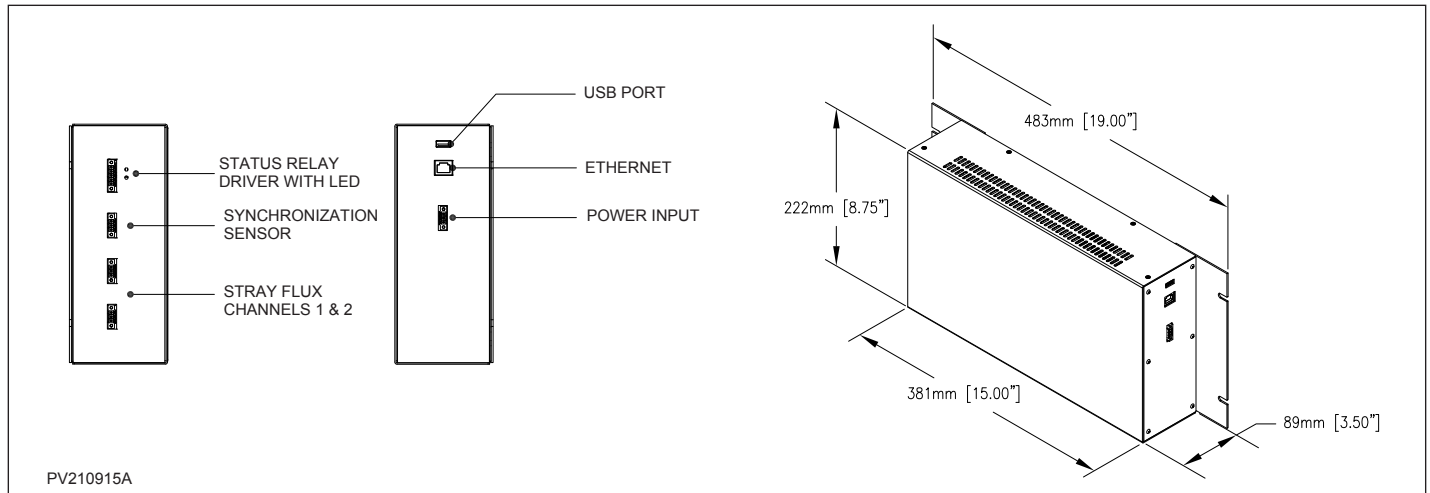
Environment

- Temperature Range
 - Operating 0 to 60 °C [32 to 140 °F]
 - Storage -20 to 80 °C [-4 to 176°F]
- Humidity Up to 95%, Non-Condensing
- Protection Rating IP20

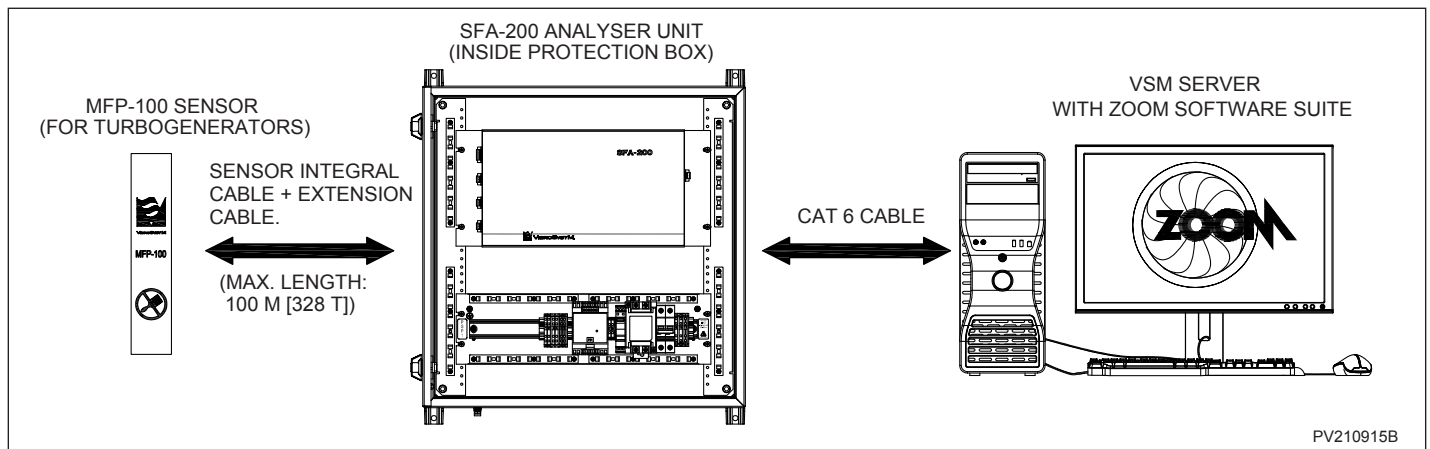
Physical Characteristics

- Case Form Factor 5U, 19" Rack-Mount
- Material Steel, Zinc-Plated

DIMENSIONS



COMPLETE SYSTEM OVERVIEW



PRODUCT IDENTIFICATION

Product Number	Description
VSM-SFA200	SFA-200 Stray Flux Analyser Unit