



## SFA™-200

### STRAY FLUX ANALYSER UNIT

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#### GENERAL SPECIFICATIONS

##### Operation

- Stray Flux Input
  - Number of Inputs 2
  - Input Impedance > 100 kΩ
  - Type Radial and Tangential<sup>1</sup>
  - 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 speed<sup>2</sup> 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 FET<sup>3</sup> (± 30 V Max. / 25 mA Max.)
- CHANNELS OK
  - Indicator Green / Orange LED
  - Relay Driver Bipolar FET<sup>3</sup> (± 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.

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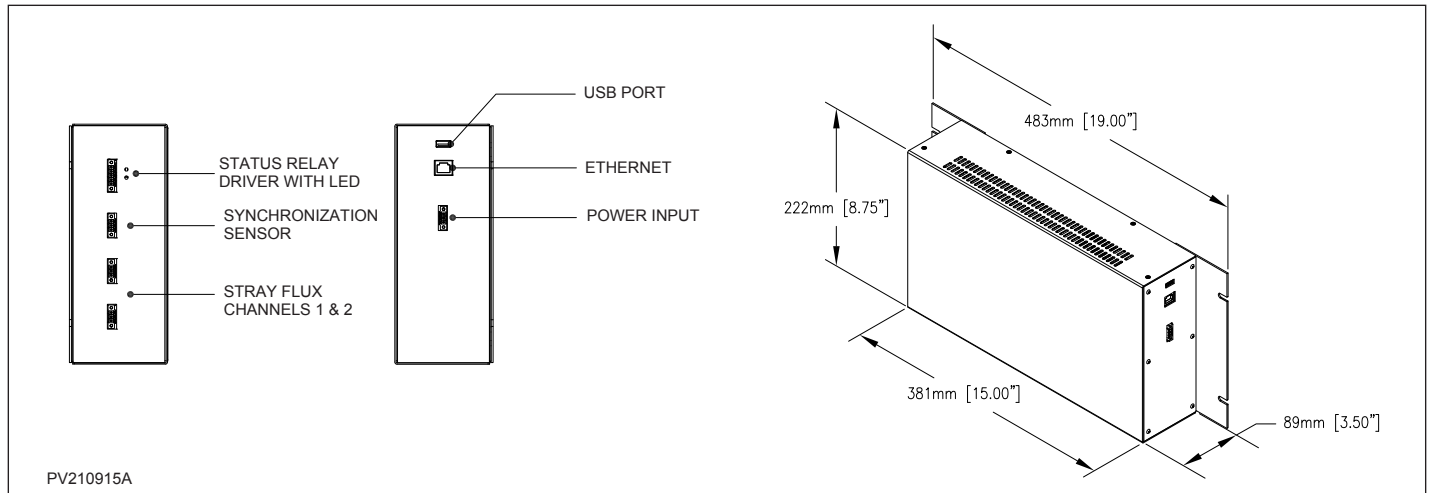
## Environment

- 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

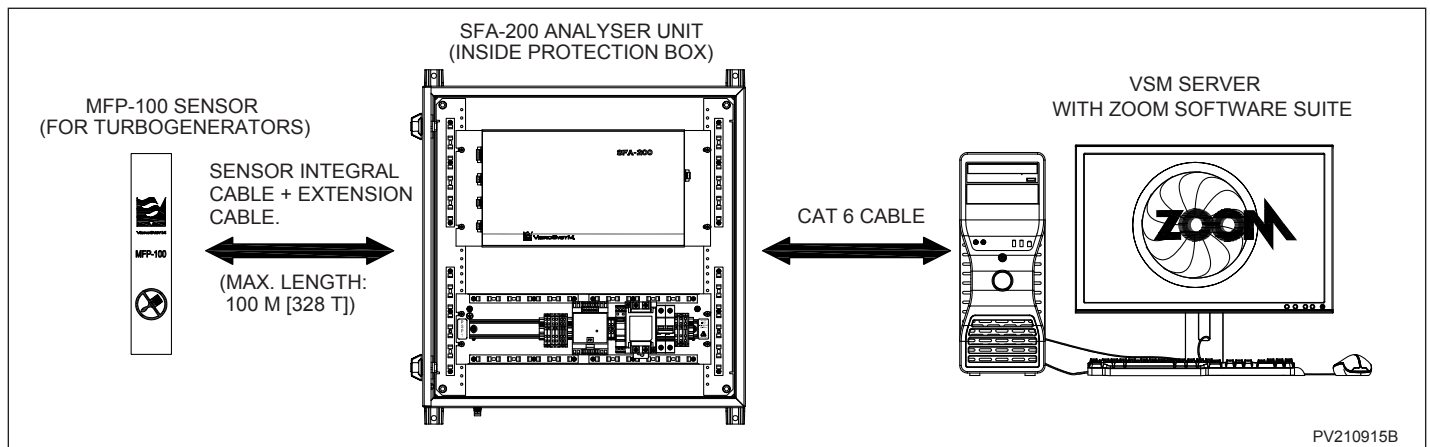
## Physical Characteristics

- 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

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