SFA™-200

Stray Flux Analyser Unit

General Specifications

Operation

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

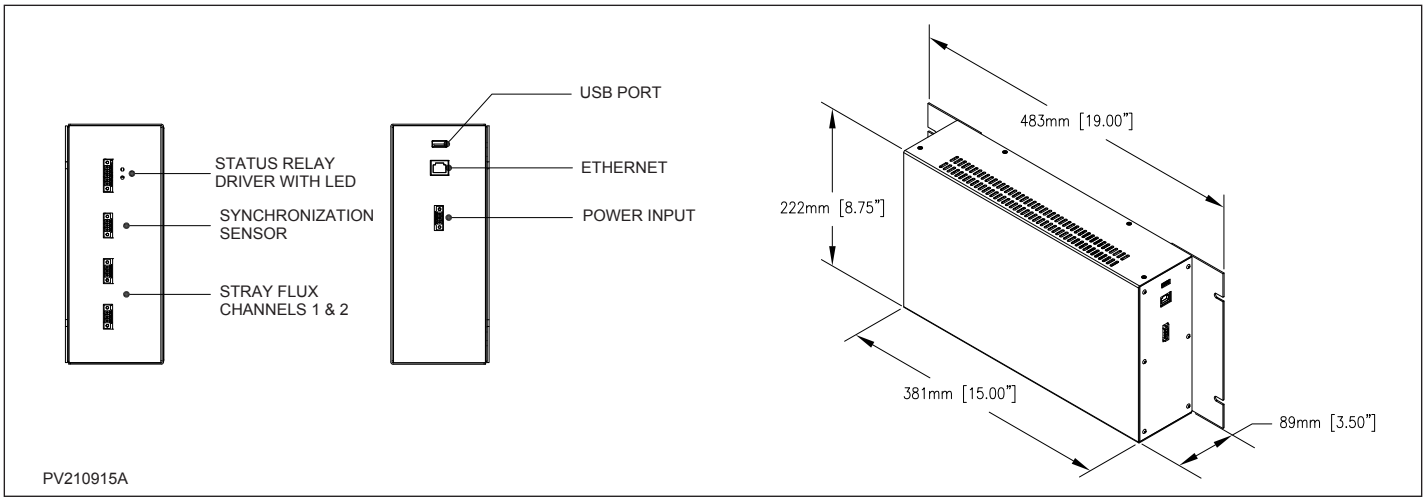
Environment

• 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

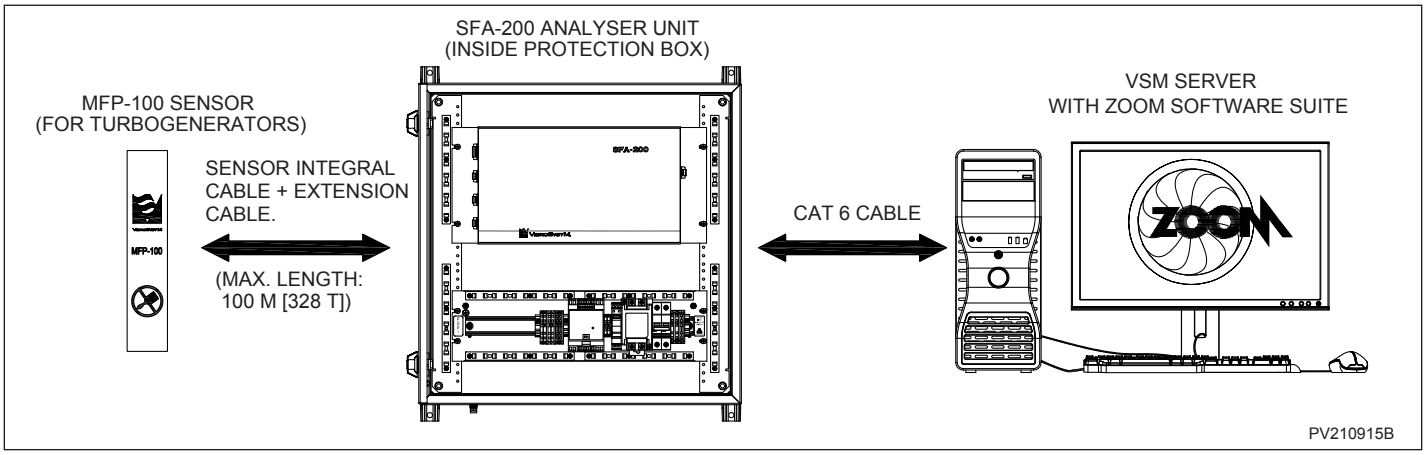
Physical Characteristics

• 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**

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