

S-FS-TRMSA

FlexSmart TRMS Module (2 channels) Sensor

A 15-bit two-channel module that accepts an input range of 5mV to 512mV and is compatible with 333mV FS output sensors.



Supported Measurements

AC Current, AC Voltage

Features

- 2 input channels of AC Current and/or Voltage
- Measures True RMS for accurate readings of sinusoidal and non-sinusoidal waveforms

Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support www.onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

Onset Computer Corporation
470 MacArthur Boulevard
Bourne, MA 02532

FlexSmart TRMS Module (2 channels) Sensor (S-FS-TRMSA) Specifications

Input Channels	Two; AC-coupled
Field Wiring	Two-wire via screw terminals on detachable connector, 16-24 AWG Replacement detachable connectors: Part of spares kit (A-FS-TRMSA-4P-1)
Input Range	5 to 512 mVRMS
Minimum Input Voltage	5mVRMS; Input voltages < 5mV will be clipped to zero (see graph below)
Maximum Input Voltage	±1V referred to AC- terminals (pins 2 and 4)
Input Frequency	50/60 Hz
Accuracy	±0.3% of reading +/- 0.5% of FSR
ADC Resolution	15 bits
AC Waveform	<4 Crest Factor
Power Requirements	+3.3V @ 3mA active, 6A sleep
Transfer Function	

$$VRMS = \sqrt{\frac{1}{T} \cdot \int_0^T [V(t)^2] dt}$$

Measurement Averaging Option	Yes
-------------------------------------	-----



The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).