

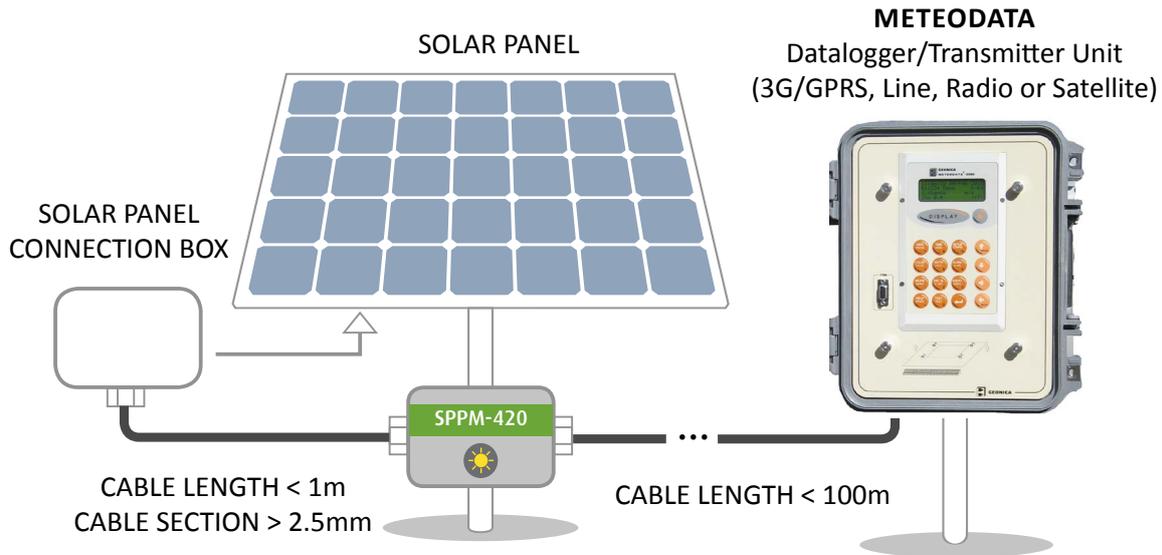
Model SPPM-420

Solar Panel Power Monitor with 4-20mA Output



SPPM-V420 is an electronic module for the measurement, conditioning, isolation and transmission of VOC signal (typical measurement range: 40V) for reference solar panels.

SPPM-I420 is an electronic module for the measurement, conditioning, isolation and transmission of ISC signal (typical measurement range: 10A) for reference solar panels.



TECHNICAL SPECIFICATIONS

GENERAL

Output Signal: 4-20mA
Accuracy: Better than 0.2% of selected range

OPERATION

Supply voltage: 8.0...35 VDC
Isolation voltage: 1.5 kVAC / 50 VAC
Response time: 1...60 s (programmable)
Warm-up time: 30 s
Programming: Loop Link & HART
EMC immunity influence: $\leq \pm 0.1\%$ of span
Cable resistance per wire: 5 Ω (max.) up to 50 Ω per wire is possible with reduced measurement accuracy
Mounting: Mechanical kit for mounting on mast.

ENVIRONMENTAL

Operating temperature: -40°C to +85°C
Relative humidity: < 95% RH (non-cond.)
Protection degree: IP66
Pressure compensation element included

SIGNAL

Signal / Noise ratio: Min. 60 dB
 I_{sc} Input / Output signal range: 0 to 14A (4 to 20 mA)
 V_{oc} Input / Output signal range: 0 to 60V (4 to 20 mA)
Signal dynamics, input: 22 bit
Signal dynamics, output: 16 bit
Effect of supply voltage change: < 0.005% of span / VDC