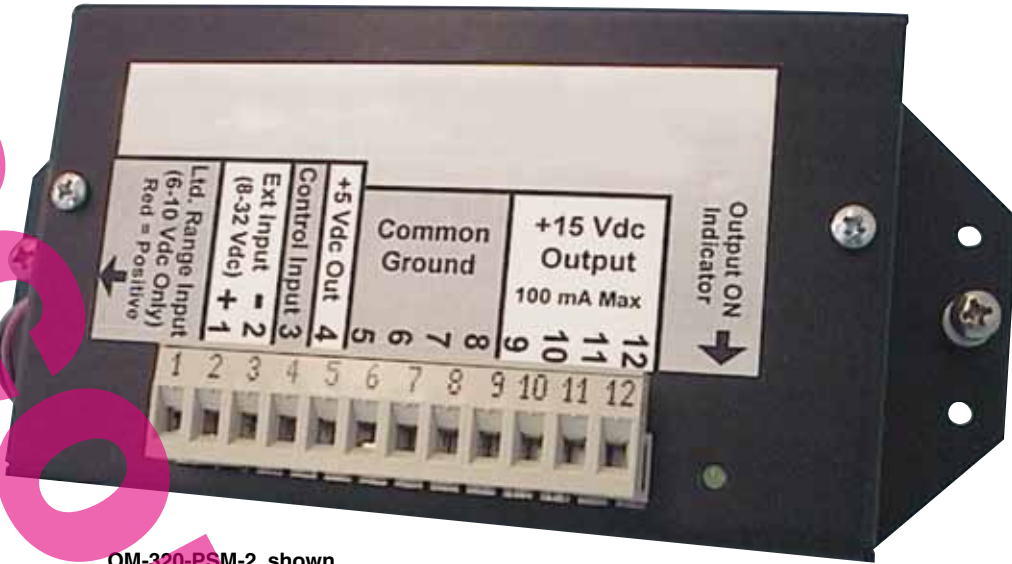


Sensor Power Supply Module

PSM-2 Series



- ✓ Field Sensor Power - Current Loops and/or Voltage Excitation Source
- ✓ Powered from System Batteries or External Power
- ✓ Installs into OM-320, OMP-MNL and OMP-MODL Data Logging Systems
- ✓ Control Input for ON/OFF Output Control via Software
- ✓ Field Programmable Output Voltages: 5, 10, 15 and 24 Vdc
- ✓ Low Power Design for Optimum Battery Life



OM-320-PSM-2, shown smaller than actual size.

The PSM-2 Power Supply Module provides excitation power for sensors used with the OM-320, OMP-MNL and OMP-MODL dataloggers. The PSM-2 can supply 100 mA of current ... sufficient to power up to five 4 to 20 mA loops. Alternatively it can be used as a voltage source for sensor excitation. A 5 Vdc output is standard and one additional output is available which can be jumper programmed in the field for 10, 15 or 24 Vdc output.

Four standard versions of the PSM-2 are available for use with the OM-320, OMP-MNL and OMP-MODL dataloggers or as a stand-alone module. The PSM-2 draws its power from the standard datalogger D-cells or an external supply. The PSM-2 outputs are cycled ON/OFF by a software controlled low-level 5 Vdc input from the associated datalogger which provides power only as required for sampling and minimizes power consumption and maximizes battery life. An LED indicator lights when the outputs are ON. Sensor excitation is easily programmed into the datalogger via the HyperWare software supplied with the datalogger.

SPECIFICATIONS

Terminal Strip: 12 position strip for connection of external power input, control signal input and the programmable and 5 Vdc outputs and ground

Pigtail Connection: A pair of pigtails is provided for direct interface to the OM-320, OMP-MNL and OMP-MODL battery pack; in the OMP-MNL and OMP-MODL, the PSM-2 is wired in series between the battery pack (OMP-MNL-BATT) and the CPU module using the two provided pigtails and mating polarized connectors

Output Indication: output "ON" LED indicator

External Power Input: 8 to 32 Vdc input

Control Signal Input: Field programmable for high input = ON or low input = ON; low = 0 to 0.5 Vdc; high = 3 to 20 Vdc; control current = 400 mA at 5 Vdc (On)

Output No. 1 (Programmable): jumper selectable for 10, 15 or 24 Vdc range; accuracy; ± 300 mV; current; 100 mA

Output No. 2 (Fixed): 5 Vdc; accuracy; ± 150 mV; current; 40 mA

Parasitic Current (Outputs Off): 300 mA typical

Circuit Protection: Continuous short circuit protection on outputs; reverse polarity protection on inputs

Operating Temperature: -40 to 70°C (-40 to 158°F)

To Order	
Model No.	Description
OM-320-PSM-2	Metal case housed stand-alone module for door mounted installation into the OM-320 datalogger
OMP-MNL-PSM-2	Power supply module mounted into OMP-MODL stacking frame for installation into the OMP-MNL or OMP-MODL datalogger stacks. Typically specified if sensor power is desired but the OMP-MNL-BATT (six D-cell battery pack) module is not.
OMP-MNL-BATT-PSM-2	Power supply module incorporated into the OMP-MNL-BATT module (six D-cell battery pack.)
OMP-PSM-2-PP	Stand-alone portable power supply module including 6 D-cells which can be used to provide sensor and loop excitation and instrument power for other data acquisition equipment.

Power supply modules are supplied with complete operator's manual.

Ordering Example: OM-320-PSM-2 power supply module for OM-320 datalogger and OMEGACARESM extended warranty (adds 1 year to standard 1 year warranty).