

Series APS 900

- UP TO 14 FULLY ISOLATED OUTPUTS IN ONE 19" RACK
- SHORT CIRCUIT PROTECTED
- RISING VOLTAGE OPTION
- REMOTE SENSING TYPE
- WIDE RANGE OF MOUNTINGS

POWER SUPPLIES for 2 wire 4 to 20mA Transmitters

Amelec power supply unit has been designed to meet the requirements of 2 wire process control transmitters operating with signal range of 4 to 20mA DC.

The power supply is built up of a series of individual plug in printed circuit boards and each board has two separate power supply channels available. Seven boards and thus 14 power supply channels can be fitted in one 19" international rack. A variety of mountings are available for Back of Panel, Wall or Rack to house very many combinations of units. Also units can be supplied in Weatherproof enclosures to IP65.

Short circuit protection is included as standard to prevent accidental damage during use.

Remote sensing is available on some units, to ensure constant voltage at remote location.

Each power supply output is fully isolated to 1KV from all others and earth.

Units can be provided with rising output voltage characteristic if required.

MODEL APS 901/1

Plug in PCB assembly with one supply output with voltage adjustable 0 to 25V DC.

MODEL APS 901/2

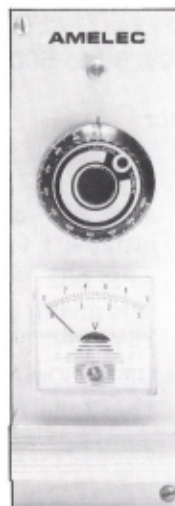
Plug in PCB assembly with two supplies output with voltage adjustable 0 to 25V DC.

MODEL APS 902/1

Plug in PCB assembly with one supply output with rising voltage characteristic giving 30V at 20mA and 26V at 4mA.

MODEL APS 902/2

Plug in PCB assembly with two supplies output with rising voltage characteristic giving 30V at 20mA and 26V at 4mA.



MODEL No. APS 901/1KG

MODEL APS 903/1

Plug in PCB assembly with one supply output with voltage adjustable 0 to 25V DC. With remote sensing.

MODEL APS 903/2

Plug in PCB assembly with two supplies output with voltage adjustable 0 to 25V DC. With remote sensing.

STRAIN GAUGE POWER SUPPLIES

The APS 991 provides up to 1.0 Amp DC for use with multiple strain gauge bridges or other applications.

Model APS 991

Input 110V or 240V 50/60Hz
Output 12V or 24V $\pm 0.1\%$
Capacity 1.0 AMP at 12V
0.5 AMP at 24V

MANUAL STATION

By adding a calibrated dial to the output regulation and fitting an analogue indicator the APS 901 can be made into a manual station.

Model APS 901/1KG

Supply 110V or 240V 50Hz
Output 4 to 20mA or 0 to 10mA
Output set by single turn calibrated dial on unit face and indicated by meter
Flush Panel mounting case

Inputs Data

110V or 240V $\pm 20\%$ 50 to 500Hz
24V DC $\pm 2.5V$
Power ON Indicator

Output Data

VOLTAGE APS 901 continuously adjustable 1 to 25V DC
APS 902 Rising Characteristic giving 30V at 20mA and 26V at 4mA

CURRENT Up to 50mA per channel

CHANNELS Two fully isolated channels per card

Conditions

Isolation between channels 1000V

AMBIENT Working -20 to $+60^{\circ}\text{C}$

TEMPERATURE Storage -40 to $+70^{\circ}\text{C}$

HUMIDITY 5 to 95% R.H.

Electrical Standards

INSULATION 1000V RMS 2000V for 20 micro seconds

FUSING Each card power supply fused

Termination and Mounting

Terminals for conductors up to 2.5mm^2 .

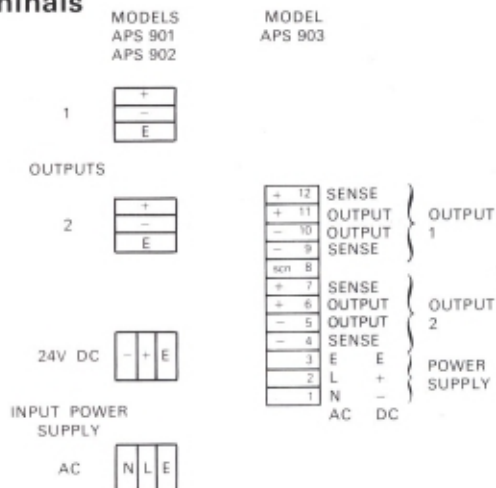
Weight average 1.5Kg per two channels.

Type of Mounting Wall, Rack, Back of Panel.

Precision extruded aluminium case and rack.

Up to 7 cards per 19" Rack.

Terminals



Performance

Supply Regulation $\pm 0.1\%$

Load Regulation $\pm 0.2\%$ of full load change

Temperature coefficient $0.02\%/^{\circ}\text{C}$

Short Circuit output causes no damage