

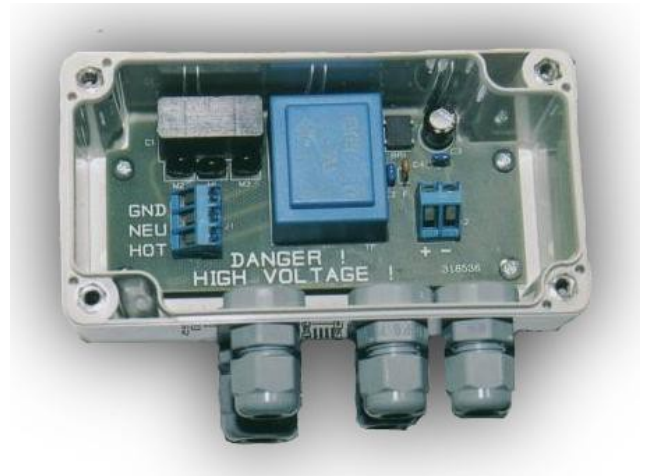


FEATURES

- GSP220 IS THE 220VAC INPUT VERSION
- GPS220E MOUNTS IN THE “E” VERSIONS
- WORKS WITH BOTH 50 AND 60 Hz
- SURGE/TRANSIENTS INPUT PROTECTION
- ELECTRICAL NOISE INPUT PROTECTION
- 12VDC NON-REGULATED 90 mA OUTPUT
- SHORT CIRCUIT OUTPUT PROTECTION
- OVER CURRENT OUTPUT PROTECTION
- SMALL SIZE
- SCREW TERMINALS FOR WIRES 22-12 AWG (2.5 mm² max)

APPLICATIONS

- TO POWER [GFC110](#), [GFC111](#) OR OTHER FLOW COMPUTERS / TOTALIZERS
- MOUNTABLE IN THEIR ENCLOSURE
- TO POWER OTHER DEVICES IN THE SAME ENCLOSURE
- TO BE USED AS A STAND ALONE POWER SUPPLY FOR OTHER DEVICES



1. DESCRIPTION

The GPS220 is a non-regulated power supply that can be used to power GFC100 series flow computers / totalizers mounted in the same enclosure thus saving space, reducing the cost and providing surge, transients and noise protection to the high voltage AC input and short circuit and over current protection to the 12VDC/90 mA non-regulated output.

GPS220E mounts inside the enclosures of the “E” versions of our flow computers / totalizers.

GPS220 can also be used to power other devices mounted in the same enclosure or as a stand alone power supply for a variety of devices.

It works with both 50 and 60 Hz input frequencies.



2. ABSOLUTE MAXIMUM RATINGS *

Operating temperature	-40 °C to +85 °C
Input Voltage	220VAC +15/-20%
Minimum Input Frequency	43 Hz
Maximum output current	90 mA DC, 25 °C

NOTICE: Stresses above those ratings may cause permanent damage to the device.

3. CHARACTERISTICS, Input Voltage 220VAC, 50 Hz, 25 °C

Parameter	Conditions	Typical	Units
Output Voltage	Output Current 20 mA	19	VDC
	Output Current 90 mA	12	
Output Ripple	Output Current 20 mA	0.2	Vpp
	Output Current 90 mA	0.6	

4. APPLICATION

4.1 MECHANICAL

The board of GPS220 is designed to be mounted into the enclosure of GFC100 series flow computers / totalizers.

The board of GPS220E is designed to be mounted into the enclosure of GFC100E series flow computers / totalizers.

4.2 ELECTRICAL

The input voltage 220 VAC has to be applied to the terminal J1.

NOTE: For safety earth ground must be connected to the “GND” terminal !
Disconnect the high voltage before doing any work on GPS220 or
GPS220E !

The earth ground must be connected to the “GND” terminal in order to achieve the best performance of GPS220.

The output voltage is on terminal J2.

Fig. 2 shows the proper connections of the input and output voltage.

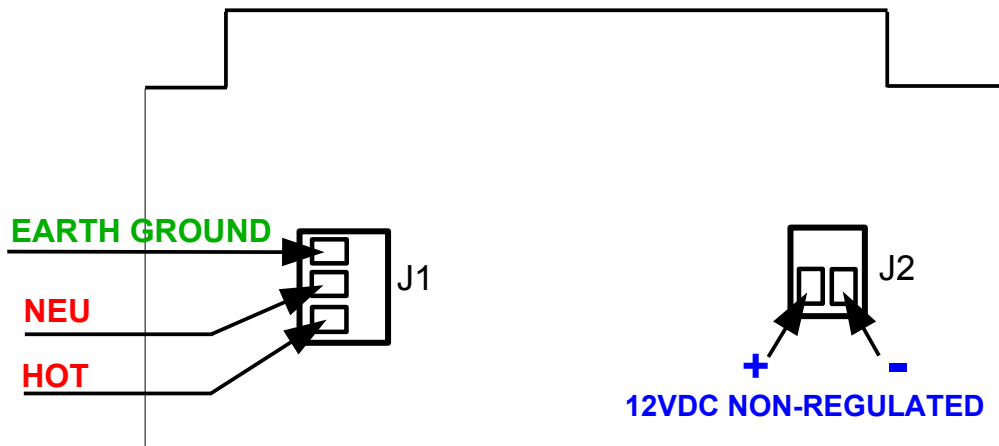


Fig. 2 Electrical connections to GPS220

NOTE: GPS220 and GPS220E are the 220 VAC version. Apply 220VAC to “NEU” and “HOT” terminals.
Applying 115VAC will result in bad performance !

5. ORDERING

For ordering please use the following G Instruments part numbers:

<i>Description</i>	<i>G Instruments PN</i>
GPS220 power supply board, 220VAC to 12VDC/90mA non-regulated	30102
GPS220 mounted in a blind water proof enclosure with 2 cable glands	30464
GPS220E power supply board, 220VAC to 12VDC/90mA non-regulated	30462
GPS220E mounted in a blind weather proof enclosure with 2 cable glands	30463



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