



## Description

The 8083 is a quad DC power supply that provides four fixed independent floating supplies in one compact module. The module has 2 x 24 V DC supplies, and then 2 x 24 V DC supplies with a 250 Ω resistor on each for powering HART devices.

Operation is simple with each supply having a dedicated control switch and power LED indicator. Output connections are industry standard 4 mm shrouded sockets spaced at 19mm. The top two supplies can be connected in series to output a voltage of 48 V DC, 6 A. The supplies must not be connected in parallel.

The module is commonly used on the CalBench as a stable 24 V power source for powering pressure and temperature transmitters with HART protocol. The mA signal measurement is performed on a module such as the 8060 process calibrator, 7051 electrical calibrator, or 5065B digital multimeter.

## Specifications

<b>Output</b> .....	4 fixed independent floating supplies: 2 x 24 V (6 A), 2 x 24 V with 250 Ω resistor.
<b>Output connection</b> .....	Via 4 mm shrouded sockets spaced at 19 mm.
<b>Switches</b> .....	4 on/off front panel switches - 1 for each supply.
<b>Ripple and noise</b> .....	50 mV or 1 % pk-pk of VNOM, whichever is greater.
<b>Regulation</b> .....	24 V - 100 mV at 6 A.
<b>2 x 24 V DC supplies with resistors</b> .....	Maximum current limited by 250 Ω resistor on each supply.
<b>Short circuit protection</b> .....	Burst mode, period: 125 ms; duty cycle 3 %.
<b>Current overload protection</b> .....	125 % of rated current.
<b>Voltage overload protection</b> .....	Latching x 60 % of nominal voltage for each supply.
<b>Indicators</b> .....	4 separate voltage power LED indicators, 1 for each supply.
<b>Terminal isolation</b> .....	To ground - 250 V DC maximum.
<b>Module width</b> .....	80 mm (primary or secondary console fitting).

## Features

- 4 fixed independent floating supplies:  
2 x 24 V (6 A), 2 x 24 V with 250 Ω resistor
- 4mm shrouded output sockets
- Suitable for powering loop instrumentation
- Suitable for powering HART devices
- Current overload protection
- Voltage overload protection
- Ripple and Noise: 50 mV or 1 % pk-pk

## Ordering Information

8083 .....Fixed Quad 24 V DC Power Supply Module