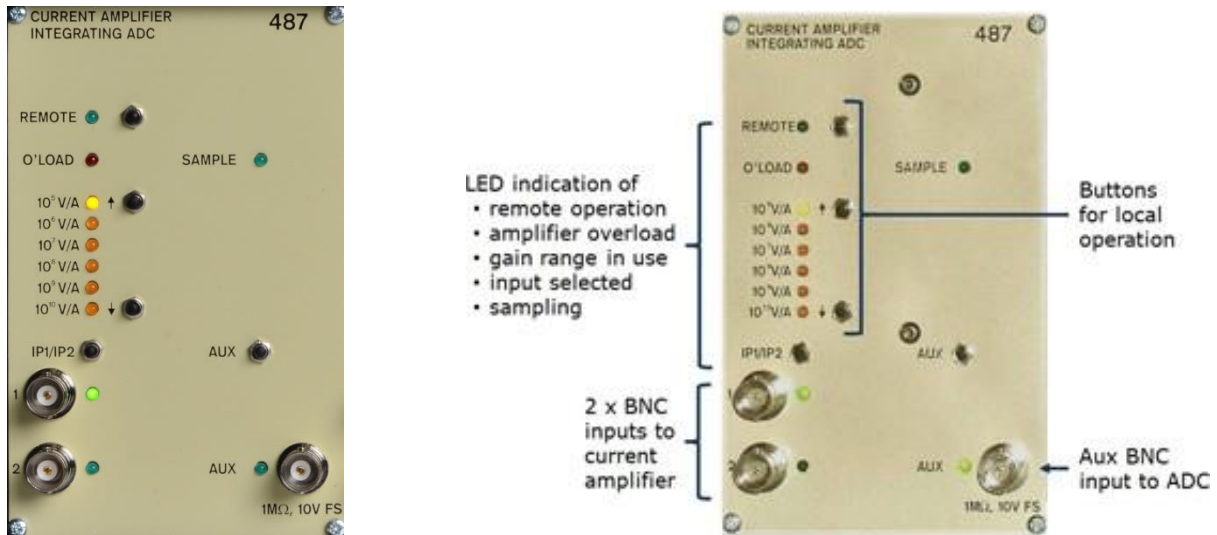


487 Dual-Channel Pico ammeter Module Brochure



Overview

The 487 dual-channel Pico ammeter module is used as the data acquisition interface in DC systems employing current generating detectors.

Offering short-circuit detector operation and an impressive six decades of gain, wide dynamic range measurements with excellent linearity can be realised.

Including an auxiliary voltage input, the 487 can be operated from the front panel or fully automated over the USB interface. Over-load and under-load flags are included to enhance optimal remote operation.

Core benefits

- ✓ High performance picoammeter with six decades of gain
- ✓ High gain accuracy and stability
- ✓ Single module for two detector systems
- ✓ Low noise

Features

- ◆ Double width module housed within the 417/417T unit
- ◆ Dual input, six-decade picoammeter
- ◆ Virtual ground (virtual null) input
- ◆ Auxiliary voltage input
- ◆ Front panel control
- ◆ Fully programmable via USB 2.0 interface

487 Dual-Channel Pico ammeter Module Specifications

	Model	487 Dual-Channel Picoammeter Module
Electrical	Channel 1 input	Current input to picoammeter
	Channel 2 input	Current input to picoammeter
	Auxiliary input	Voltage input to ADC
	Gain Ranges	1010-105 V/A
	Maximum Current Input	100 μ A
	Frequency Response	DC to 30Hz
	Gain Accuracy	1%
	Gain Stability	200ppm/ $^{\circ}$ C
	Output Stability	5ppm/ $^{\circ}$ C to 500ppm/ $^{\circ}$ C depending on sensitivity
	Linearity	< 0.025% departure from linearity from zero to full scale
	ADC Resolution	4½ digit BCD (0 to 19999) i.e. > 14-bit resolution
	ADC Integration Time	100ms
	Auxiliary input range	0- 9.8V
	Picoammeter Input Impedance	Virtual earth
	Auxiliary input impedance	1 M Ω
Interface & Mechanical	Interface	USB via 417/417T Unit (I2C)
	Control	Front panel/ USB
	Front Panel Controlled Features	Input select, gain range select, auxiliary input select
	Dimensions	Dual width module, 3U high
	Connector	BNC
	Display	Digital display of 417-unit, channel C



Ordering Information

S400_487	487 picoammeter module
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