

ALTEK

PneuCal III



Features:

- Two Built-In Pumps – Vacuum and Pressure
- High Accuracy – 0.035% FS
- 1-51 mA Inputs
- Switch Test Inputs
- 100 PSID Internal Sensor
- Read up to 10,000 PSI With Optional External Sensor
- Built-In 24 VDC Loop Power
- Temperature Compensated From -10° to 50°C (13° to 122°F)
- Selectable Engineering Units
- Just 18 Pounds
- Dual Digital Display – PSI and mA
- Gauge, Differential, or Vacuum Modes

The Altek PneuCal III is a highly accurate, digital calibrator for pneumatic field instrumentation, including valve actuators, P/I transmitters, controllers, gauges, switches and recorders. It is especially suitable for checking 3 to 15 PSI systems. Its dual precision regulators enable output of set and variable pressures to control devices, while the switching manifold allows fast selection among the pressure ports. The unit simultaneously displays pressure and mA, and has a built-in loop power supply. Accuracy is $\pm 0.035\%$ of full scale for all ranges. Optional external sensors measure other pressure ranges.

Each Unit Includes: Built-In Switch Testing, AC Adapter/Charger, Test Leads, Hard Shell Carrying Case, Instructions, Built-in Pressure and Vacuum Pumps.

663 PNEUMATIC CALIBRATOR SPECIFICATIONS

Pressure Ranges/Resolution:	-5.00 to 100.00 PSI, -34.47 to 680.00 kPa, VAC to 10,000 PSI with optional modules
Pressure Accuracy:	$\pm 0.035\%$ FS PSI (over -10 to +50°C range)
Pressure Engineering Units:	PSI; Pa; kPa; MPa; BAR; mBAR; atm; kgf/cm ² ; mm Hg; in Hg @ 0°C and 15°C, in H ₂ O: 4°C, 15°C, 20°C, 23°C; mm H ₂ O @ 4°C and 23°C; cm H ₂ O @ 4°C and 23°C
Electrical Engineering Units:	mA; % of 4-20 mA; % of 10-50 mA
Electrical Input Connections:	Double insulated, full-size banana jacks
mA Input Range:	1-51 mA
mA Resolution:	0.001mA
mA Accuracy:	$\pm 0.01\%$ FS
Temperature Effect:	0.005%/°C (mA Input only)
Loop Power:	24 VDC, $\pm 20\%$, 25 mA max. (When loop power is enabled, the discharge rate on the batteries exceeds the charging capacity of the 16 VDC adapter.)
Switch Test:	Dry contacts only. (Display will freeze when switch test inputs change state. Press RESET key to resume normal operation.)
Operating Temperature:	-10°C to 50°C (13°F to 122°F)
Storage Temperature:	-30°C to 85°C (-22°F to 185°F)
Zero Adjustment:	Via front panel push-button (pressure only)
Display:	2-line, 16 character alpha-numeric display
Power:	Internal Ni-Cd batteries or 16 VDC adapter. (To charge battery the unit has to be powered off.)
Battery Life (typical):	23 hrs. (1 hr. with 24 VDC transmitter power at 20 mA)
Dimensions (h x w x d):	7"x18.5"x15.5"

Unless otherwise indicated, all specifications are referred to an ambient temperature of 23°C ± 1 °C (72°F ± 2 °F).

M O D U L E S



PRESSURE MODULE SPECIFICATIONS

Gauge Pressure Modules

Model	Range	Accuracy	Media
90-5G	5 PSIG	±0.025% Rdg +0.01% FS	316SS Compatible
90-10G	10 PSIG	±0.025% Rdg +0.01% FS	316SS Compatible
90-30G	30 PSIG	±0.025% Rdg +0.01% FS	316SS Compatible
90-100G	100 PSIG	±0.025% Rdg +0.01% FS	316SS Compatible
90-300G	300 PSIG	±0.025% Rdg +0.01% FS	316SS Compatible
90-500G	500 PSIG	±0.025% Rdg +0.01% FS	316SS Compatible
90-1,000G	1,000 PSIG	±0.025% Rdg +0.01% FS	316SS Compatible
90-2,500G	2,500 PSIG	±0.025% Rdg +0.01% FS	316SS Compatible
90-5KG	5,000 PSIG	±0.1% FS	316SS Compatible
90-10KG	10,000 PSIG	±0.1% FS	316SS Compatible

"Dual Sensor" Pressure Module

Model	Range	Accuracy	Media
90-10G/2500G	10/2,500 PSIG	±0.025% Rdg +0.01%FS	316SS Compatible

Differential Pressure Modules

Model	Range	Accuracy	Media
90-10WD	±10 "H ₂ O Diff.	±0.025 in. H ₂ O	Clean Dry Gasses
90-5D	5 PSID	±0.025% Rdg +0.01% FS	316SS High/Dry Gas Low
90-15D	15 PSID	±0.025% Rdg +0.01% FS	316SS High/Dry Gas Low
90-30D	30 PSID	±0.025% Rdg +0.01% FS	316SS High/Dry Gas Low
90-100D	100 PSID	±0.025% Rdg +0.01% FS	316SS High/Dry Gas Low

Absolute Pressure Modules

Model	Range	Accuracy	Media
90-15A	15 PSIA	± 0.05% FS	316SS Compatible
90-30A	30 PSIA	± 0.05% FS	316SS Compatible

Vacuum Modules

Model	Range	Accuracy	Media
90-15V	VAC to 0 PSIG	± 0.05% FS	316SS Compatible
90-15C	VAC to 15 PSIG	± 0.05% FS	316SS Compatible



MODPAK 91 MODULE HOLDER