



Monitor
with
Confidence

TEL 604 540 1100
info@rstinstruments.com
www.rstinstruments.com

RST Instruments Ltd.
11545 Kingston St.,
Maple Ridge, BC V2X 0Z5 Canada



SPECIFICATIONS

ITEM	SPECIFICATION
Display	256 x 128 graphical with backlight 12 mm characters for data
Accuracy	±0.1% F.S.
Full Scale Range	1.4 MPa / 200 psi
Resolution	1 kPa / 0.1 psi
Operating Temperature	-20 to 50°C (-4 to 122°F)
Memory	128 kB
Storage Locations	250
Total Data Records	9800
Site Identification String	Up to 20 characters
Cylinder	1.0 litre (2000 psi)
Battery	Internal lithium cell
Dimensions	44 W x 20 H x 35 D cm (17.25 W x 7.75 H x 13.75 D in.)
Automatic Flow Controller	Standard



Compatible pneumatic instruments for the C109 (shown from left to right): Total Earth Pressure Cell, P-100 Mini Piezometer, P-100-1 Piezometer, and Pneumatic Wellpoint Piezometer.



PRODUCT CATEGORY:
READOUTS + DATA LOGGERS

C109 Pneumatic Readout

The new C109 Pneumatic Readout is the ideal solution for monitoring all pneumatic transducers, including Piezometers and Total Earth Pressure Cells. A sealed weatherproof case and electronic components allows for the most accurate recordings in even the harshest of conditions.

The C109 stores up to 250 instrument locations per route with a total of 9800 time/date stamped data records. User-specified location names and previous data greatly assist the operator in data collection and analysis. Data is transferred to a host computer via USB and the file format is compatible with Microsoft Excel® and other spreadsheet applications. The C109 Digital Pneumatic Readout ships with C109 Host Software for Windows®.

Pneumatics are especially suited for projects where manual readings are required and are excellent for projects where a lightning immune backup to electrical sensors is needed. Pneumatic sensors also have extreme overpressure endurance which makes them highly suited to driven pile tip load cell and explosive compaction piezometer applications.

> APPLICATIONS

Where the manual readings of pneumatic transducers including Piezometers and Total Earth Pressure Cells is required.

Bubbler readout for monitoring standpipe piezometers.

> FEATURES

The automatic flow controller ensures accurate, repeatable readings, independent of pressure or tubing length, eliminating operator error.	The internal pressure cylinder is refilled in place. No additional regulator is required to fill the internal cylinder. The necessary filler hose is supplied.
Low operating flow of 35 cc/min. insures most economical use of gas.	Relief valves protect sensitive parts from over-pressurization.
Cylinder pressure ranges to 2000 psi (14,000 kPa) available.	User selectable scales: psi / kPa / ft. H2O / m. H2O / mm H2O / in. H2O
Simple one switch operation and Auto Off.	Interfaces via .CSV files to Excel®.
Stores 250 instrument locations with 9800 total data records.	Ability to transfer data to host computer via USB
Sealed weatherproof case and electronics.	Long life lithium battery.
Track and compare old data/readings against current readings.	

> BENEFITS

✓ High Reliability

✓ Custom Options

ORDERING

ITEM	PART #
C109 Pneumatic Readout	PPC109



Contact RST for Details