

PL10 Room Inspector

Negative pressure monitoring equipment

Easy operation

Data logger for monitoring low pressure + alarm

Equipped with a high-precision low differential pressure sensor and advanced measurement technology, PL10 is adequate to monitoring the negative pressure of “the negative pressure room” and “the isolation room”.



PL10 is a device that monitors the low pressure of negative pressure rooms that prevent leakage of internal air to the outside.

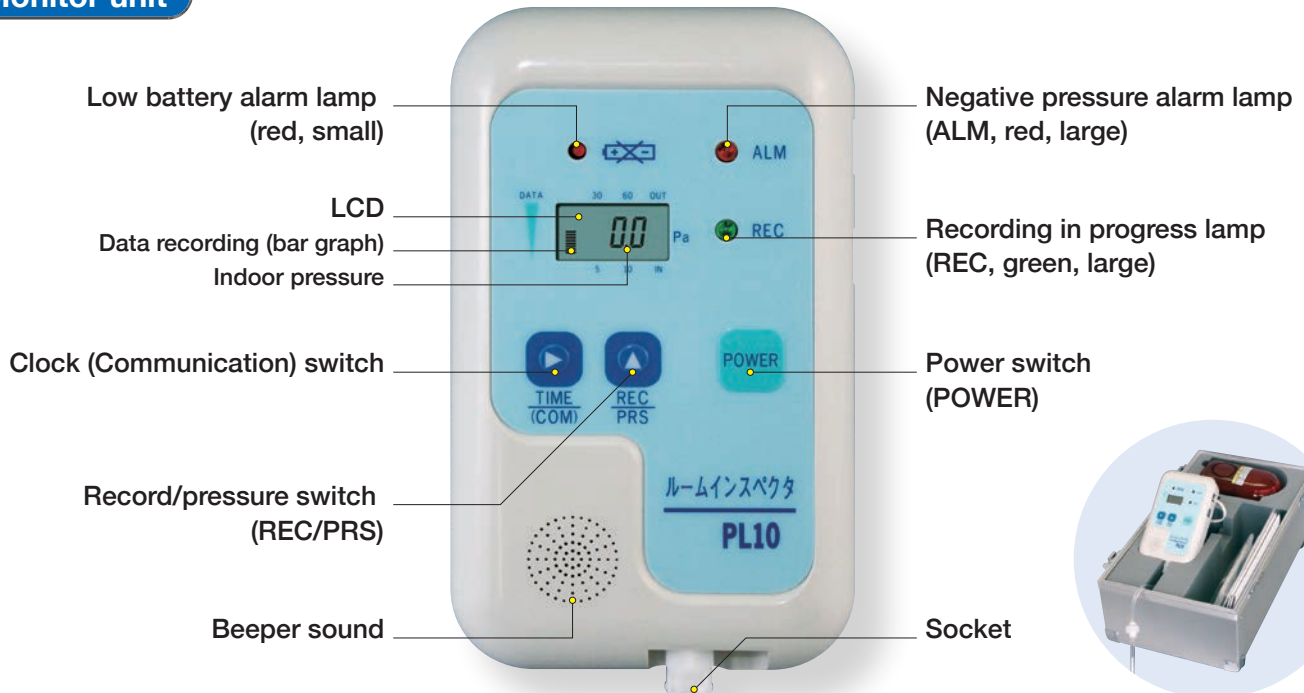
This device can be readily managed onsite by virtue of being compact and lightweight and outfitted with both a data logger and a battery-powered alarm for negative pressure anomalies.



Negative pressure monitoring equipment

*Please inquire separately if you require positive pressure measurement.

Monitor unit



Model No. PL10-211

Features

● Accurate measurement of low indoor negative pressure

The silicon capacitance (SC) sensor detects minute indoor negative pressure with high precision at a high resolution (0.1 Pa).

● Reduction of the influence of wind and other noise

The PL10 features a case construction that is not affected by external wind noise and a digital filter function that makes the indoor pressure display easier to read by reducing display fluctuations caused by draughts from dust-proofing equipment and other influences.

● Long service life provided by the power-saving design of the battery drive

The power-saving design of the battery drive, which uses four AA alkaline batteries, enables long-term operation of at least six months even in the case of continuous operation in locations where AC power cannot be used.

● Monitor-unit negative pressure alarm and a wireless remote alarm for peace of mind

In addition to the negative pressure alarm functions (blinking lamp/beeper sound) provided by the monitor unit, notification of the alarm status can also be provided at a remote location such as a construction site office.

● Easy storage of computer records

The data stored in the device's memory can be read by the computer, displayed as an indoor pressure trend graph, and easily recorded and stored as data files.

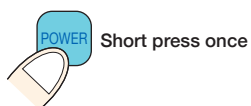
● Convenient trunk cases (options) provide portability and can also be used as a stand for the monitor unit

Trunk cases fitted with cushioning material enable convenient, worry-free transport by car or by hand. In addition, each trunk case can also be used as a stand for the monitor unit.

Operation procedures

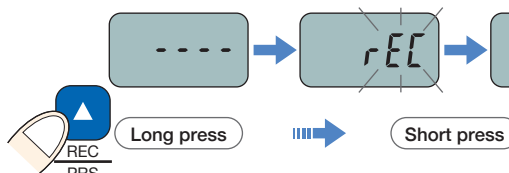
Turning the power on

Short press the power switch. It will beep twice to indicate that the power has been turned on.



Data logging + negative pressure alarm

Long press the REC/PRS switch for at least three seconds. When the "rEC" display starts blinking, short press the REC/PRS switch. The "rEC" display lights to indicate the start of data logging and the negative pressure alarm function.



Turning the power off

Short press the power switch twice within a one-second interval to turn the power off.

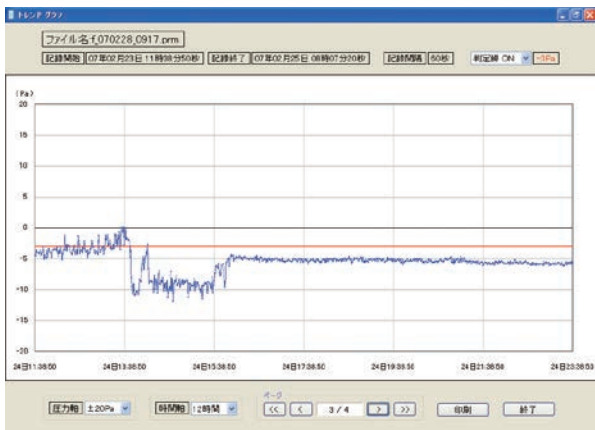


Data logging of the indoor pressure (standard feature)

- The negative pressure status can be confirmed by one glance at the trend graph screen.
- The data can be easily stored as permanent files.

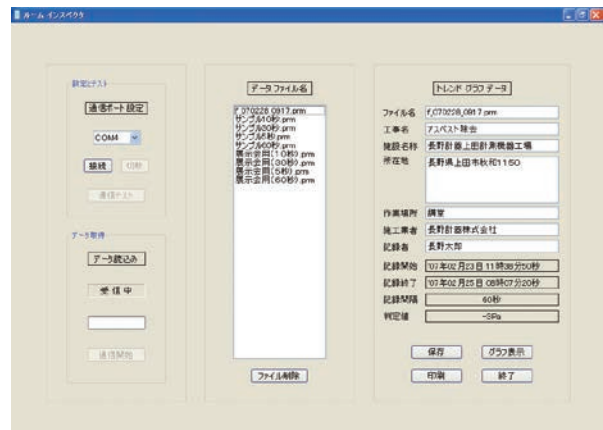
Trend graph screen

- Scrolling of the time axis
- Scaling of the pressure axis



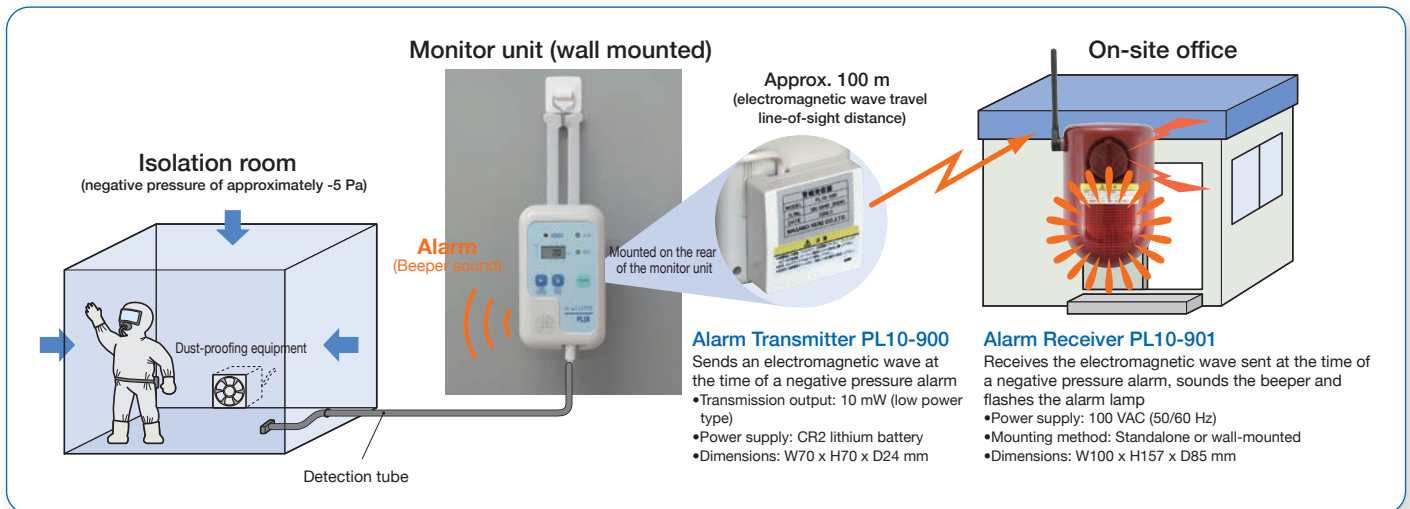
Data file screen

- Reading of data stored in memory
- Entry of workplace and other information
- Display of the recorded data content



Wireless remote alarm option

- Provides peace of mind because notification of negative pressure alarms can also be made at locations that are distant from the worksite.
- Multiple transmitters and receivers can be used in combination.



Product specifications

Monitor unit

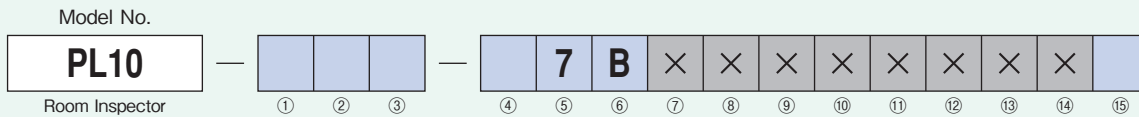
Item	Description
Differential pressure sensor	Range: ± 50 Pa, maximum allowable pressure: ± 50 kPa
Indoor pressure display	LCD ± 3 digits (display cycle: one second) Accuracy $\pm 1.0\%$ F.S. + 1 digit at 23°C
Clock display	LCD, Year, month/day, hour/minute
Negative pressure alarm	Alarm when the negative pressure is abnormal •Red lamp blinks (ALM) •Beeper sounds
Battery alarm	Red lamp blinks (battery mark)
Setting switches	•Data logging interval (recording time) 5 seconds (0.5 day), 10 seconds (1 day), 30 seconds (3 days), 60 seconds (6 days) •Beeper sound (enabled, disabled) *The negative pressure alarm judgment value is set at the factory prior to shipment

Item	Description
Operating switches	REC/PRS switch •Used to change the display between the indoor pressure and number of recorded data TIME/COM switch •Used for communications with the computer
Power supply	AA-size alkaline battery x 4 Battery life: At least six months operation (continuous) at 23°C
External interface	•USB communication Type B (to an external computer) •Remote alarm contact output
Operating temperature and humidity	0 to 40°C, 10 to 85% RH (non-freezing, non-condensing)
Storage temperature and humidity	-10 to 50°C, 10 to 85% RH (non-freezing, non-condensing)
Dimensions	W95 x H158 x D40 mm (excluding protuberances)
Weight	Approx. 300 g

Connected devices and other equipment

Item	Description
Detection tube	5-m polyurethane tube ($\phi 4 \times \phi 6$, with filter)
Computer management software (CD-ROM)	Includes form preparation software for PC use (Windows 7, 8, 8.1, 10 version) * USB cable 2 m
Mounting plate	Flexible type (for wall mounting or standing the monitor upright within the trunk case)
Trunk case (small)	Portable aluminum case, approx. 2 kg W280 x H165 x D200 mm (excluding protuberances)
Trunk case (large)	Portable aluminum case, approx. 4 kg W400 x H167 x D220 mm (excluding protuberances)

Model number configuration Please specify the model number, each specs and the range for ordering.



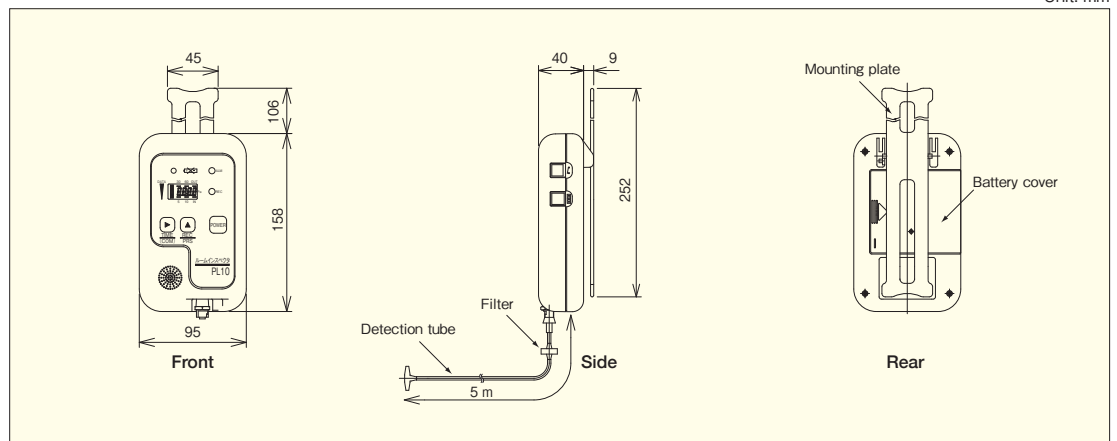
Model number		Selective spec.	Additional spec. (Option)
PL10	[Standard specifications]		Monitor unit, mounting plate, one detection tube (with filter), computer management software (CD-ROM) and USB cable for computer
①Type	0	Without trunk case	
	1	With trunk case (small) (for storage of the monitor unit)	
	2	With trunk case (large) (for storage of the monitor unit + alarm transmitter and receiver)	
②Alarm transmitter (wireless)	0	Nil	
	1	Required	
③Alarm receiver (wireless)	0	Nil	
	1	Required	
④Negative pressure alarm judgment value	1	-1 Pa	
	2	-3 Pa	
	3	-5 Pa	
⑤Display accuracy	7	± (1.0 %F.S.+1digit)	
⑥Power supply	B	AA alkaline battery x 4	
⑮Documents	0	Test report (one copy of the report)	
	1	Complete set (calibration certificate, traceability certificate and test report)	

Options

Model number	Description
PL10-900	Alarm transmitter (wireless) 1 unit
PL10-901	Alarm receiver (wireless) 1 unit
PL10-902	Detection tube (with filter) 1 set (5 tubes)
PL10-904	Trunk case (small) (for storage of the monitor unit)
PL10-905	Trunk case (large) (for storage of the monitor unit + alarm transmitter and receiver)

Dimensions

(Monitor unit)



*Please inquire separately regarding positive pressure measurement and remote monitoring.

The contents in the catalogue are subject to change without notice.



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