

HSE RPL-10 ROOM PRESSURE LOGGER

The Room Pressure Logger (RPL-10) is designed to provide continuous monitoring and logging of the differential pressure between adjacent spaces in compounding pharmacy clean rooms, laboratories, isolation and operating rooms and other critical environments. The RPL-10 also monitors door position



with an option for monitoring temperature and/or humidity. The unit helps comply with USP 797, OSHPD, CDC, CAG 003 and FDA 503b guidelines.

APPLICATIONS

- Compounding pharmacies
- Cleanrooms
- Laboratories and vivariums
- Hospital patient, isolation and operating rooms
- Pharmaceutical and semiconductor manufacturing
- Hospital construction (RPL-10P portable version)

FEATURES

- 4x20 LCD display
- Room status LEDs: green (normal), red (alarm)
- Password protected menus and calibration data
- High accuracy thermal mass flow sensor-based pressure transducer with altitude compensation
- All wiring, flow signal port and power connections terminate in base unit

OPTIONS

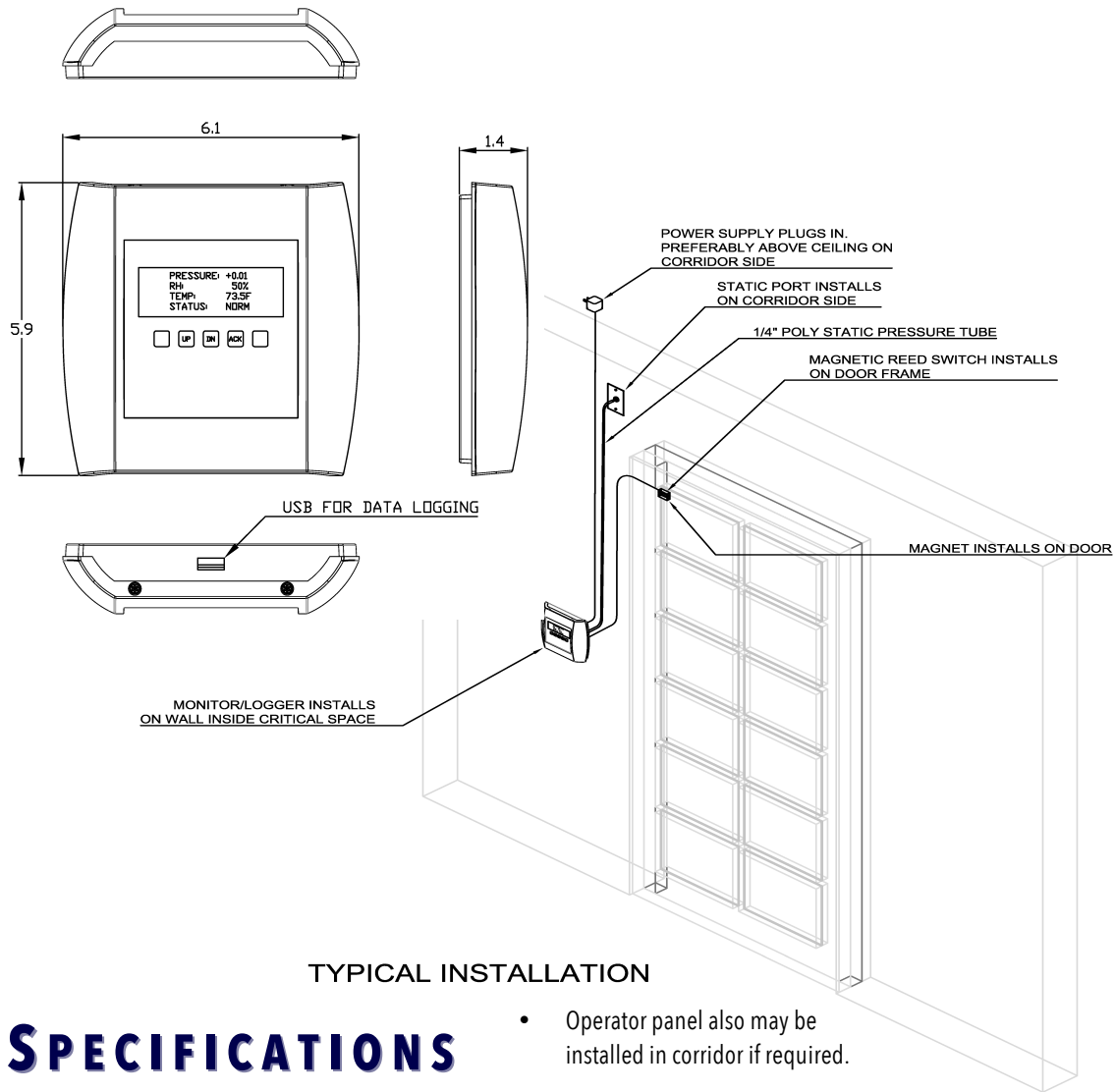
- RPL-10: Room pressure, door position, data logging
- RPL-10T: Room pressure, door position, data logging, remote temperature
- RPL-10TH: Room pressure, door position, data logging, remote temperature and humidity

COMPONENTS

- Operator/technician keypad
- Pressure sensor
- Magnetic door switch
- Power supply
- Wall mount pressure port with 10 feet of tubing
- USB flash drive for data logging
- All necessary mounting hardware

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DIMENSIONS



TYPICAL INSTALLATION

SPECIFICATIONS

- Operator panel also may be installed in corridor if required.

Display: Imperial (inches water, °F) or metric (pascals, °C)

Analog output: 0-5V proportional to pressure

Relay output: One output for pressure alarms

Data logging: Written as .csv file to USB flash drive at user-defined intervals (from 15 to 3,600 seconds)

Power: 12VDC–120V plug-in AC adapter included

Door Sensor

Type: Non-contact magnetic sensor

Additional doors: Multiple sensors may be wired in series

Alarm

Time Delay: Selectable over 0-120 seconds

Audible alarm: Mute and reset buttons

Pressure Sensor

Range: -0.1 in.-wg to +0.1 in.-wg

Resolution: 0.001 in.-wg

Accuracy: +/- 3% of full scale (+/- 0.003 in. wg)

Temperature Sensor (optional)

Range: 32 °F -100 °F

Resolution: 0.1 °C or °F

Accuracy: +/- 1°C at 25°C from 40°C to 125°C

Humidity Sensor (optional)

Range: 0-100% RH

Resolution: 1%

Accuracy: +/- 3.5% from 0-100% relative humidity