



REMOTE LEAK DETECTION PANEL · CS0-RSP2-06 · CS0-RSP3-06

Find the leak before it finds your equipment.

The Remote Leak Detection Panel watches up to six leak zones and powers the detectors that guard them. Each zone has its own LED, label and relay, an alarm sounds the moment liquid appears, and every zone is published over Modbus for your BMS.



6

leak zones, each with its own LED, write-on label and output relay

1,000 ft

from each detector on voltage-free dry-contact wiring

24 V

detector power built in: 24 VAC on the RSP2-06, 24 VDC on the RSP3-06, 40 VA

7

relay outputs: one for every zone plus a common alarm relay

Pairs with Pythia's LD1 point detectors and LD2 sensing-rope detectors, so one panel both powers and monitors the whole leak-detection field.

Six zones

Each labeled by location, NO or NC.

Powers the detectors

24 VAC or 24 VDC, built in.

A relay per zone

Plus a common alarm relay.

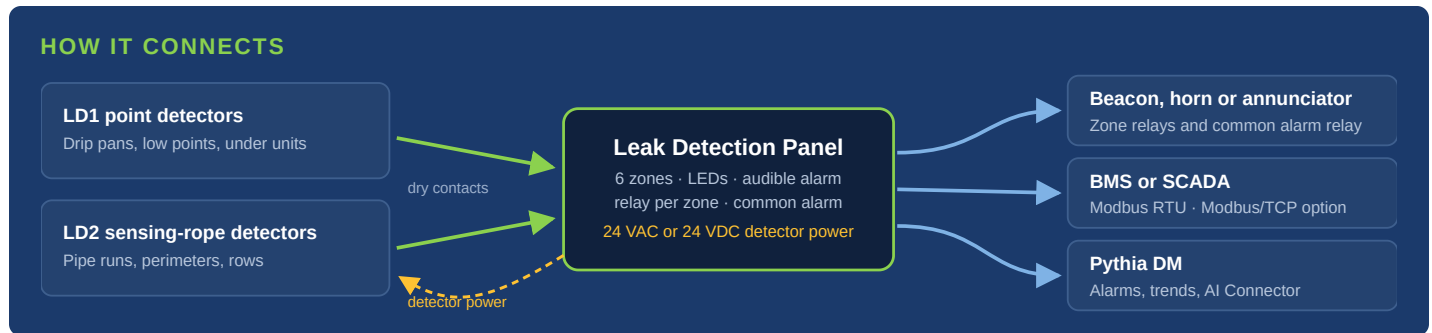
Networked

Modbus RTU; Modbus/TCP, SNMP and BACnet/IP optional.

HOW IT WORKS

One panel powers and watches the whole leak field.

Each detector is powered from the panel and wired back to one of its six zone inputs. When liquid reaches a detector, its relay changes state: the panel lights that zone's LED, sounds the buzzer, switches the zone's output relay and the common alarm relay, and reports the zone over Modbus.



Labeled by location

A write-on strip beside each zone LED, compatible with Brother ½-inch labels, so staff see "CRAC-3 Pan", not "Input 3".

Powers the detectors

A built-in 24 VAC (RSP2-06) or 24 VDC (RSP3-06) supply at 40 VA feeds the external detectors. No separate power supply to find.

A relay for every zone

Six zone output relays plus a common alarm relay (NO or NC, 6 A) can drive local beacons, shut a valve circuit or signal a BMS.

Latching alarms

A leak stays displayed until someone acknowledges it, even if the liquid dries or the detector resets. Latching is set per zone.

NO or NC, per zone

Each input is set normally open or normally closed to match the detector, including fail-safe wiring that alarms on a cut wire.

Test it any time

Hold the Acknowledge button for about five seconds: every LED lights and the buzzer sounds.

TWO MODELS

	CS0-RSP2-06	CS0-RSP3-06
Detector power	Built-in 120 VAC to 24 VAC transformer, 40 VA	Built-in 120 VAC to 24 VDC supply, 40 VA
Leak zones	6 voltage-free dry-contact inputs, NO or NC, up to 1,000 ft	
Outputs	6 zone relays plus 1 common alarm relay, NO or NC, 6 A	
Communications	Modbus RTU standard; Modbus/TCP, SNMP and BACnet/IP with optional adapters	
Choose it when	Your detectors run on 24 VAC	Your detectors run on 24 VDC

THE DETECTORS

Point detection and continuous coverage.

Both Pythia detectors run on 11–27 VAC or VDC, within range of either panel's detector power, and wire straight into a zone input through voltage-free SPDT contacts.



POINT DETECTOR

LD1

Gold-plated probes detect liquid at one spot: a drip pan, a floor low point or the base of a unit.

- Probe height adjustable 0 to 1.5 in
- NEMA 4 cast-aluminum enclosure
- SPDT alarm contact, NO or NC
- Green power and red alarm LEDs



SENSING-ROPE DETECTOR

LD2 Series

Senses liquid anywhere along its rope. Rope lengths of 10, 25, 50 or 100 ft, or the LD2-LC with a leader cable.

- Separate Alarm and Trouble relays
- Trouble relay flags a cut, broken or unplugged rope
- Plenum-rated sensing rope
- NEMA 3R enclosure

Fail-safe tip. Set the detector's E/D jumper to D and a cut wire or a dead detector raises an alarm instead of going quiet. Set the panel zone to NO or NC to match.

WHERE IT'S USED

From a drip pan to a data-hall perimeter.

CRAC drip pans

Four CRAC units in a server room

Panel CS0-RSP2-06
Detectors 4 × LD1, one per pan
Zones 1–4, latching

Each zone is labeled with its CRAC, so staff know exactly which pan is overflowing the moment the panel alarms.

Chilled-water pipe run

Dozens of feet of pipe across a mezzanine

Panel CS0-RSP3-06
Detector LD2-50 under the pipe
Zones 1 Leak, 2 Rope trouble

A leak at any joint trips Zone 1. If the rope is cut or unplugged during other work, Zone 2 says so.

Perimeter plus hot spots

A data hall with two high-risk units

Panel RSP2-06 or RSP3-06
Detectors LD2-100 + 2 × LD1
Network Modbus/TCP to the BMS

The rope rings the room on Zones 1 and 2, two LD1s cover the units on Zones 3 and 4, and two zones stay free for later.

SPECIFICATIONS

CS0-RSP2-06 and CS0-RSP3-06.

INPUTS AND OUTPUTS	
Leak zone inputs	6 voltage-free dry contacts, each NO or NC. Up to 1,000 ft with Belden 6300UE
Zone output relays	6, one per zone, NO or NC. 6 A at 250 VAC, 6 A at 30 VDC. Class 2 circuits only
Common alarm relay	1, NO or NC, same rating. Latching available
Detector power	RSP2-06: 24 VAC, 40 VA transformer. RSP3-06: 24 VDC supply, 40 VA
Local indication	LED and write-on label per zone (Brother ½ in compatible), power LED, buzzer, hold-to-acknowledge button, LED test mode
COMMUNICATIONS AND SETUP	
Protocols	Modbus RTU, RS-485, standard (address 254, 19200, 8-N-1). Modbus/TCP, SNMP and BACnet/IP with optional adapters
Configuration	NO/NC and latching per zone, alarm delay 0–60 s and buzzer enable, with the Pythia configuration tool or Modbus registers
PHYSICAL	
Enclosure	Wall-mount ABS, IP67 rated, UL94-V0. Meets or exceeds the UL 508A Open Industrial Control Panel standard
Power	120 VAC standard. 24 VAC and 48 VDC optional
Environment	–30 to 45 °C (–22 to 113 °F) inside the enclosure. 5 to 95% RH, non-condensing
Recommended wiring	Belden 6300UE for dry contacts, Belden 6300FE for communications

Specifications are subject to change. Call for alternative assemblies and options.

MODBUS REGISTERS

Point	Register	Value
Zone inputs 1–6	41001–41006	0 / 1
Zone outputs 1–6	42001–42006	0 / 1
Buzzer	42009	0 / 1
Common alarm	42012	0 / 1
Buzzer enable	44000	R/W
Alarm delay	44001	0–60 s
NO / NC, zones 1–6	44011–44016	R/W
Latching, zones 1–6	44021–44026	R/W

The full register and BACnet object lists are in the product guide.



PYTHIA DM · ADD THE PANEL TO YOUR MONITORING

From a red light to a full leak history.

The DM polls the panel over Modbus and gives every leak an alarm, a notification, a time stamp and a trend. With the DM AI Connector, an assistant can tell you which zone is wet, when it started and how often it has happened.

Put a leak alarm where people will see it.

Tell us where your leak risks are and how your detectors are powered, and we'll recommend the panel, detectors and zone layout.

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