

EMS-LD-P4

Surface point probe with dual relay, 4.3 m leader leader

One monitored point on the loop, wired to a controller channel or a BMS input

Surface point probe with dual relay covering one monitored point and reporting that point rather than a distance. The electrodes sit 0 to 4.8 mm above the surface and the 4.3 m (14 ft) non-sensing leader carries the signal to the panel. It reads water and water-glycol blends at 15 % propylene glycol by weight and above; Detection is a point report; this model returns no distance along the run.

ORDERING INFORMATION

Part number	EMS-LD-P4
Detection type	Surface point probe with dual relay
Monitored points	1 point, reported as that point and not as a distance
Probe height	0 to 4.8 mm adjustable
Leader cable	4.3 m (14 ft)
Relay outputs	2
Mounting	Surface mount on a drip pan or floor
Compatible controllers	Any controller in this family; or any device accepting a digital dry contact

DETECTION AND COVERAGE

Parameter	Value	Notes
Detection type	Surface point probe with dual relay	One probe covers one monitored point
Probe height above surface	0 to 4.8 mm (0 to 0.19 in) above the monitored surface	Adjustable; setting it too high holds the electrodes clear of a thin film, setting it too low holds condensation on the face
Detection target	Conductive fluid bridging the electrodes at the probe face	The bridging current is what the panel reads
Leak cable length	Not applicable — the probe senses at its own face	Point detection at the probe face
Glycol detection floor	15 % propylene glycol by weight and above	Below that concentration the bridging current falls away
Fluids not reliably read	Near-DI water and pure dielectric fluids	The bridging current across the electrodes is weak or absent
Leak-cable temperature	Not applicable — the probe has no leak cable	No leak cable on this model
Ingress protection	Not specified in this product class	The sensor body is a sealed assembly; no IP rating is published for this class
Dry and reset	Returns to normal status once the probe face is wiped dry	The 50 mm minimum fluid depth published for the sensing rope does not apply to a point probe

ELECTRICAL AND OUTPUT

Parameter	Value	Notes
Power	Isolated 24 VAC/VDC	Isolated supply at the probe

Parameter	Value	Notes
Relay outputs	2	Relays are rated for a dry contact into a BMS or DCIM input
Output to the BMS	2 × dry contact	Wire the output so the alert reaches the on-call team, not only the panel
Local audible and visible alarm	No	No local alarm on this model
Compatibility	Any controller in this family; or any device accepting a digital dry contact	Leaders and terminators from the same accessory ladder complete the run

PHYSICAL AND ENVIRONMENT

Parameter	Value	Notes
Body size	39.4 × 50.8 × 25.4 mm (1.55 × 2.0 × 1.0 in)	Surface-mount body
Weight	93 to 219 g across the family	The per-code figure is fixed on this datasheet
Leader cable	4.3 m (14 ft)	Non-sensing: the leader length does not detect and cannot be located
Ambient, operating	0 to +50 °C	Matches the rated ambient of the controllers in this family
Humidity	5–95 % RH, non-condensing	All five probe models
Altitude	4,572 m	Same maximum as the controllers in this family
Storage	–20 to +70 °C	Matches the storage range of the controllers in this family
Mounting	Surface mount in a drip pan or on the floor; 2 hold-down clips per rack probe	Set the height at commissioning and record it
Proof test	At commissioning, then at least once a year	The older published recommendation is monthly

APPLICATIONS

- Leak points that drive two separate actions, such as an alarm and an isolation signal
- Pump seals and manifold joints on a loop with a local shutdown output
- Retrofit points wired to two BMS inputs on separate systems

INCLUDED WITH THE PROBE

- Sensor body
- 4.3 m (14 ft) non-sensing leader
- Hold-down fixings for the body
- Wiring diagram for the BMS or DCIM input

COMPATIBLE WITH

- Any controller in the EMS-LD-C family
- Any device accepting a digital dry contact
- Leader cables and terminators from the same accessory ladder

SCOPE

- Sensing rope, leader cable and end-of-line terminator only
- No coolant distribution units and no cold plates

POINT PROBE LADDER

Parameter	Value	Notes
EMS-LD-P1	Surface point probe	None
EMS-LD-P2	Surface point probe with local alarm	None
EMS-LD-P3	Surface point probe with single relay	1
EMS-LD-P4	Surface point probe with dual relay	2
EMS-LD-P5	Rope-type rack probe	None

NOTES

- A point probe reports one point; only a locating rope reports a distance along the run. The two are not interchangeable coverage.
- This model returns no distance, so position resolution, locating accuracy and locating repeatability are not applicable rows on it; they are published on the EMS-LD-R rope models.
- The 4.3 m leader does not sense, so the first 4.3 m of the route cannot be located.
- An IP rating is not specified for this product class, on all five probe models.
- Certification names are published on the badge cards; approval documents are shown on request.
- EMS-Trade Cooling inspects and packs each probe with the model code on the packing list.

Full specification sheet and current pricing EMS-Trade Cooling · ems-cool.com Typical lead time confirmed on order acknowledgement.	EMS-LD-P4 Rev. A 2026-09-19
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