

EMS-LD-P5

Rope-type rack probe, 2.0 m uplink leader

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

Rope-type rack probe covering one monitored point and reporting that point rather than a distance. The electrodes sit on a 0.3 to 6.0 m leak cable and the 2.0 m (6.6 ft) uplink carries the signal to the panel. It reads water and water-glycol blends at 15 % propylene glycol by weight and above; The leak-cable rating is 0 to +75 °C, 5–95 % RH, usable to 4,572 m altitude.

ORDERING INFORMATION

Part number	EMS-LD-P5
Detection type	Rope-type rack probe
Monitored points	1 point, reported as that point and not as a distance
Probe height	Not applicable; bracket mounted
Leader cable	2.0 m (6.6 ft) uplink plus 0.3–6.0 m of leak cable
Relay outputs	None — reports to the host controller
Mounting	2 hold-down clips
Compatible controllers	Any controller in this family via the controller port

DETECTION AND COVERAGE

Parameter	Value	Notes
Detection type	Rope-type rack probe	One probe covers one monitored point
Probe height above surface	Not applicable — the probe is bracket mounted and senses along the leak cable	Rack probe: coverage comes from the routed leak cable, not from a probe height
Detection target	Conductive fluid on the leak cable	The bridging current is what the panel reads
Leak cable length	0.3 to 6.0 m (1 ft to 20 ft)	Leak cable spans 0.3 to 6.0 m on the rack probe
Glycol detection floor	15 % propylene glycol by weight and above	Sensors in this family were tested against 10 % to 55 % propylene glycol mixtures
Fluids not reliably read	Near-DI water and pure dielectric fluids	The bridging current across the electrodes is weak or absent
Leak-cable temperature	0 to +75 °C	Applies to the leak cable, not to the sensor enclosure
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	From the controller port	From the controller channel on this model
Relay outputs	None — reports to the host controller	No relay on this model

Parameter	Value	Notes
Output to the BMS	Via the controller port	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; controller port connection	Leaders and terminators from the same accessory ladder complete the run

PHYSICAL AND ENVIRONMENT

Parameter	Value	Notes
Body size	Bracket mounted; 2 hold-down clips per probe	Bracket-mounted body, supplied with 2 hold-down clips
Weight	93 to 219 g across the family	The per-code figure is fixed on this datasheet
Leader cable	2.0 m (6.6 ft) uplink plus 0.3–6.0 m of leak cable	Non-sensing: the leader length does not detect and cannot be located
Ambient, operating	5 to +55 °C	Sensor ambient; the leak cable carries its own wider range
Humidity	5–95 % RH, non-condensing	All five probe models
Altitude	2,000 m	Sensor ambient limit; the leak cable is usable to 4,572 m
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

- Inside a rack, where 6 m of leak cable covers a manifold and a hose set
- Rack-interior coverage where a rope reel will not fit or route
- Manifold and flexible hose coverage inside a closed cabinet

INCLUDED WITH THE PROBE

- Sensor body with bracket
- 2.0 m (6.6 ft) uplink cable
- Mounting bracket
- 2 hold-down clips
- Sensor-to-rope wiring harness

COMPATIBLE WITH

- Any controller in the EMS-LD-C family
- The controller port on the EMS-LD-C family
- 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 2.0 m uplink does not sense, so the first 2.0 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-P5 Rev. A 2026-09-19
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