

# RS-LVL-001-01 / 01 Overview

## Submersible Liquid Level Kit

Brand: ROGERSENSE

Model: RS-LVL-001-01

Document version: 1.0

Hardware / firmware revision: TBD



Product presentation. Delivered configuration: TBD.

### Key functions

| Parameter     | Value / conditions                                                                               | Rev. |
|---------------|--------------------------------------------------------------------------------------------------|------|
| Measurement   | Hydrostatic liquid level<br>Conversion from pressure to depth depends on liquid density          | 1.0  |
| Nominal range | 0-5 m<br>Confirm calibration medium / density before publication                                 | 1.0  |
| Accuracy      | 0.5% as published<br>Reference basis and test conditions not stated; do not invent<br>+/-0.5% FS | 1.0  |

### Delivery configuration

RS-LVL-001-01 probe + SEN0262 current-to-voltage converter; probe supply and converter supply are separate.

### Application scope

Reference specifications for project evaluation. Final delivery is subject to the agreed hardware, firmware, accessories and acceptance conditions. Presentation imagery does not define manufacturing geometry.

## RS-LVL-001-01 / 02 Technical data

Documented values and operating conditions. Conflicting or unavailable values are marked TBD.

| Parameter                       | Value / conditions                                                                               | Rev. |
|---------------------------------|--------------------------------------------------------------------------------------------------|------|
| Measurement                     | Hydrostatic liquid level<br>Conversion from pressure to depth depends on liquid density          | 1.0  |
| Nominal range                   | 0-5 m<br>Confirm calibration medium / density before publication                                 | 1.0  |
| Accuracy                        | 0.5% as published<br>Reference basis and test conditions not stated; do not invent<br>+/-0.5% FS | 1.0  |
| Probe output                    | 4-20 mA<br>Analog current loop; no native RS485                                                  | 1.0  |
| Probe supply                    | 12-36 V DC<br>Not the converter board supply                                                     | 1.0  |
| Converter supply                | 3.3-5.5 V<br>SEN0262 board only; separate from 12-36 V probe                                     | 1.0  |
| Operating temperature           | -20 to +70 deg C                                                                                 | 1.0  |
| Diaphragm / housing             | 316L / 304 stainless steel                                                                       | 1.0  |
| Cable / protection              | 5 m / IP68 as published<br>Terminal / converter board are not established as submersible         | 1.0  |
| Included items                  | Level probe x1; SEN0262 converter x1<br>Kit SKU; do not omit converter in the sale description   | 1.0  |
| Probe overload / life reference | 300% as listed; 1e8 cycles at 25 deg C; test basis TBD                                           | 1.0  |
| Air-vent tube                   | Thick red tube is a pressure vent, not an electrical conductor                                   | 1.0  |

## RS-LVL-001-01 / 03 Electrical interface

### Pin / terminal definitions

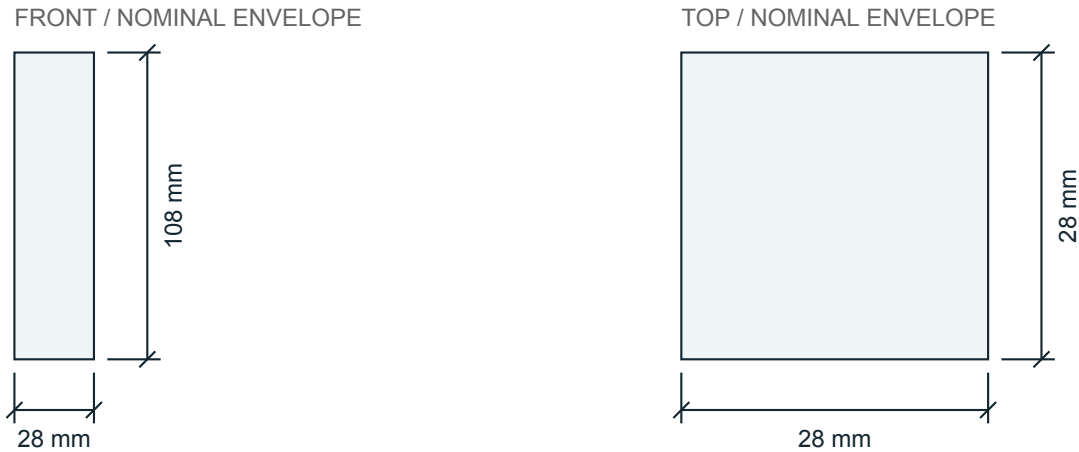
| Parameter           | Value / conditions                                                                                                           | Rev. |
|---------------------|------------------------------------------------------------------------------------------------------------------------------|------|
| Probe red / black   | VCC positive / negative return, per source labels<br>Follow the current-loop connection drawing, not a TTL wiring assumption | 1.0  |
| Thick red tube      | Air-guiding tube, not an electrical terminal<br>Keep reference vent dry                                                      | 1.0  |
| Converter terminals | GND, VCC, Signal, I+, I-<br>Consult source connection drawing                                                                | 1.0  |

### Electrical conditions

| Item                            | Value / condition                                         | Rev. |
|---------------------------------|-----------------------------------------------------------|------|
| Pin viewing orientation         | TBD unless identified in the approved wiring drawing      | 1.0  |
| Harness / logic compatibility   | TBD; confirm against the delivered hardware before wiring | 1.0  |
| EMC / isolation / load derating | TBD; component ratings do not establish system ratings    | 1.0  |

RS-LVL-001-01 / 04 Mechanical & installation

Dimensions / unit: mm



Unit: mm. Not to scale. Holes / datum / unspecified tolerances: TBD.

Rectangular envelope reference: first two dimensions represent the documented body diameter. The actual product is cylindrical.

| Item                                          | Value / condition                           | Rev. |
|-----------------------------------------------|---------------------------------------------|------|
| Probe body diameter / length                  | 28 / 108 mm                                 | 1.0  |
| Tail feature / cable length                   | 50 / 5000 mm                                | 1.0  |
| Diaphragm / housing                           | 316L / 304 stainless steel                  | 1.0  |
| Probe protection                              | IP68 as published; converter protection TBD | 1.0  |
| Datum / tolerances / installation depth limit | TBD / TBD / TBD                             | 1.0  |

Installation control

Confirm mounting datum, clearance, connector access and the exact delivered revision. Drawing spans listed in the table require an approved drawing to establish orientation. Unspecified geometry and tolerances: TBD.

## RS-LVL-001-01 / 05 Protocol & software

### Native interfaces and protocol

| Item                   | Value / condition                                                | Rev. |
|------------------------|------------------------------------------------------------------|------|
| Probe output           | 4-20 mA current loop; not a native digital protocol              | 1.0  |
| Converter              | SEN0262 current-to-voltage converter, 3.3-5.5 V supply           | 1.0  |
| Controller acquisition | ADC range / calibration coefficients / density compensation: TBD | 1.0  |
| Probe supply           | 12-36 V DC; independent of converter low-voltage supply          | 1.0  |

### ROGERSENSE integration services

MQTT connectivity, OTA firmware updates, gateways and cloud platform are available for delivery. Model-specific controllers, interfaces and adaptation are agreed per project. These services do not imply native MQTT or OTA support inside every sensor.

Platform: <https://iot.rogersense.com>

| Item                                    | Value / condition | Rev. |
|-----------------------------------------|-------------------|------|
| Gateway / firmware build                | TBD               | 1.0  |
| MQTT topic / payload / credentials      | TBD               | 1.0  |
| OTA signing / rollback / access control | TBD               | 1.0  |

## RS-LVL-001-01 / 06 Delivery & verification

### Configuration and acceptance record

| Item                                | Value / condition                               | Rev. |
|-------------------------------------|-------------------------------------------------|------|
| Document version                    | 1.0                                             | 1.0  |
| Brand / model                       | ROGERSENSE / RS-LVL-001-01                      | 1.0  |
| Hardware / firmware revision        | TBD                                             | 1.0  |
| Serial number / calibration report  | TBD                                             | 1.0  |
| Approved mechanical drawing         | TBD                                             | 1.0  |
| Inspection / acceptance report      | TBD                                             | 1.0  |
| Packing / harness / accessories     | TBD; confirm the ordered configuration          | 1.0  |
| Certification / compliance evidence | TBD unless identified in the delivery agreement | 1.0  |

### Open items

Every TBD item and any conflicting supply, accuracy, dimensional or revision requirement must be resolved in the approved delivery configuration. Calibration conditions, wiring orientation, installation datum and application suitability require project verification.

### After-sales

After-sales follows the existing ROGERSENSE policy and the approved order. <https://rogersense.com/returns>