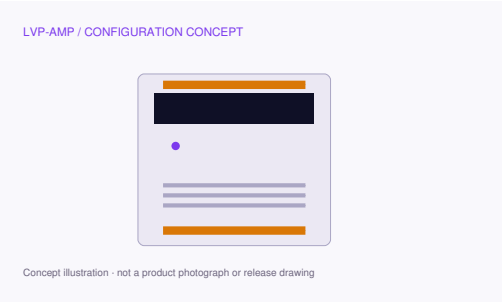
LVP-AMP / Engineering selection brief

PRELIMINARY REQUEST WORKSHEET - not a released model datasheet or dimensional drawing

Match the inductive input before choosing the PLC output.

A carrier conditioner request begins with the sensor and cable it must drive. A calibration-fixture request begins with the reference displacement and uncertainty needed. Treat the electronics and mechanical reference as distinct parts of the chain.



Owned configuration concept only. No scale, dimensional tolerance or release status is implied.

Which transformer or bridge input?

Supply the exact probe/core model, topology, excitation amplitude/frequency, sensitivity, phase requirements and cable load. Include the existing input schematic.

A 3-wire half-bridge is not established as compatible with a generic 4/5/6-wire LVDT module.

What output and channel behaviour?

Define the receiver load, zero/span mapping, output polarity, filtering and update interval. For multiple channels, request synchronization and review interaction tests.

An RS485 connector does not define the register map, and a DIN-rail enclosure does not establish isolation.

What does the calibration fixture need to cover?

Give full required travel, alignment, reference instrument, uncertainty target and fixture clearances. Identify how the sensor, core and reference will be mounted.

A 0-25 mm fixture permits only the applicable travel; 0.001 mm readout resolution is not an accuracy or traceability statement.

Read installation and application conditions on the family page

LVP-AMP / Requested configurations & review

REQUEST REFERENCES ONLY - final dimensions, interface and acceptance follow the agreed drawing and quotation

Requested travel / body / interface envelope

Carrier frequency requests: 1 / 2.5 / 5 / 10 kHz excitation requests

Body / installation: DIN-rail single / multi-channel configurations

Interface: 0-10 V / +/-10 V / 4-20 mA / RS485

LVP-AMP-REQ-ANALOG - Not applicable - equipment request
Not applicable | Signal conditioner | 0-10 V

Single/multi-channel carrier conditioner; excitation and input topology to specify

LVP-AMP-REQ-RS485 - Not applicable - equipment request
Not applicable | Signal conditioner | RS485 Modbus

Digital conditioner request; channel count and register map to review

LVP-CAL-REQ-25 - Not applicable - equipment request
Not applicable | Calibration fixture | Fixture only / no electrical output

0-25 mm bench fixture request; uncertainty and alignment to review

Proposed acceptance sequence - agree method and limits before the order

1. Agree the input and output mapping
Confirm sensor excitation and input topology, then define the requested output at the reference travel points and the receiving load.

2. Record the mechanical comparison
Use the agreed reference, alignment and travel sequence. Keep raw readings before/after adjustment and the calculation method for residuals and repeatability.

3. Evaluate measurement uncertainty
Document relevant contributions, reference-chain evidence and coverage method. A completed blank worksheet is not a calibration certificate or an accreditation claim.

General technical background / not LVP product evidence

Beckhoff: LVDT and half-bridge connection types

Examples of distinct input topologies, not a universal LVP connector assignment.

NIST: metrological traceability and uncertainty

Traceability concerns measurement results and their documented calibration chain; it is not a certification of this site or template.

Download date/revision must not replace a controlled model drawing. Requested extremes are not automatically combinable. Price, quantity/MOQ, lead time, delivery basis and warranty follow the quotation.

LVP-AMP / Fillable engineering RFQ

Complete in a PDF reader, save a copy, verify the saved entries and email it to inquiry@lvdtsensor.com.

All fields are blank. Entries remain in your local PDF until you choose to send it. State units and distinguish bipolar +/- range from total travel. No files are automatically uploaded.

Company / contact

Reply email

Sensor / core model, serials and drawing revision

Winding topology and carrier amplitude / frequency

Sensitivity, phase and cable length/load

Output range, load and required zero/span mapping

Channels, synchronization and permitted delay

Digital protocol, register map and reference

Fixture travel, alignment and mounting clearances

Reference instrument, serial and calibration status

Uncertainty target and required report contents

Quantity, destination and required date

Drawing revision, STEP/IGES, pinout, calibration and qualification scope

This form is an engineering request, not a purchase order, compatibility approval, specification release or test certificate. Attach the original nameplate and drawing to your email where available.