Emerson EZ1081-03-00-010 + EZ1901-090

01 Identify the 10 m combination

1 Read both labels

Confirm the complete EZ1081 probe code and EZ1901-090 extension marking before removal. Record the converter identity and calibration convention.

2 Retain the selected geometry

The 30 mm case sets the mounting reach. Preserve its position, the fixed neck clearance and the target orientation when planning replacement.

Probe lead	1 m
Extension	9 m
Complete electrical chain	10 m

02 Prepare the target and mounting

1 Check nearby metal

Compare target area, counterbore clearance and material thickness with the actual installation. Keep the sensing field clear of unintended metal.

2 Set the mechanical position

Hold the probe body while tightening the locknut. Preserve the fixed neck clearance and avoid transmitting torque into the cable.

Probe tip / thread	8 mm / M10 × 1
Case	30 mm
Locknut torque	Maximum 15 N·m

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03 Route and connect the armoured lead

1 Support the route

Position the 9 m extension without sharp bends, contact with rotating parts, continuous oil immersion or direct oil streams. Allow for movement without loading the connector.

2 Insulate the joint

Make the specified hand-tightened connection and fit black heat-shrink insulation. Follow the additional requirements applicable to any hazardous-area installation.

Minimum bend radius	35 mm for armour
Stored loop diameter	At least 100 mm
Connector / extension limit	+150 °C

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04 Set the calibrated operating point

1 Use the real target

Establish the operating gap using the matched converter output. Compare the selected ISO or API scale factor with the installed target calibration.

2 Check the appropriate range

Use the 10 m chain limits; the standard 5 m API range allowance does not apply. Move the target through an approved controlled displacement and verify a proportional response.

Nominal gap	1.5 mm reference
ISO / API sensitivity	8 / 7.87 V per mm
General dynamic recommendation	≤1250 µm peak-to-peak

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05 Confirm the restored measurement

1 Check the full channel

Compare target movement, converter output and monitoring indication. Inspect joint insulation and support after setting the final gap.

2 Record the final assembly

Retain both complete model codes, the 10 m electrical length, target material, scale factor and measured operating point for future replacement.

Technical basis: Emerson AMS EZ 1000 Sensor Installation Guide, MHM-97883 Rev. 1.09, January 2025.

Related product navigation

Emerson PR6426/000-131 CON041

Emerson PR6426-000-030

These are related references, not confirmed substitutes or an automatically approved assembly.