DIP switches · Output test

Check the board version and the ON marking next to the switches. Turn ON only the switches listed for the required function; leave the others OFF.

Diagrams show ON at the top. For operation, follow the ON marking on the actual board.

Normal operation

Switches ON: None



Fixed output 2 mA

Switches ON: 8



Fixed output 4 mA

Switches ON: 3



Fixed output 10 mA

Switches ON: 4



Fixed output 20 mA

Switches ON: 5



> The DIP 4 test output is 10 mA in the final company guide of December 2024. Compare older boards with their delivery documents and verify the measured current. Output testing does not replace a gas response test.

DIP switches · Calibration

Only trained maintenance personnel may calibrate the output, using the specified procedure and an accurate reference meter.

Increase 4 mA reference

Switches ON: 1, 2, 3



Decrease 4 mA reference

Switches ON: 2, 3



Increase 20 mA reference

Switches ON: 1, 5



Decrease 20 mA reference

Switches ON: 2, 5



SPAN calibration

Switches ON: 4, 6, 7





Save button / ENT

Functional drawing based on the original save button. Confirm its actual position and save procedure on the applicable board.

> For 20 mA UP, switches 1 and 5 are ON; switch 2 is OFF. Checked against the diagrams in the final company guide of December 2024.

Procedure and return to normal

01 Prepare

Record the model, board, firmware and current switch settings. Confirm alarm and interlock effects of current tests and calibration with the relevant personnel. Open explosion-proof equipment only after isolating power and confirming a safe atmosphere.

02 Select and check

Turn ON only the DIP switches required for the intended function. Verify test current using a meter. Use approved maintenance procedures and an accurate reference meter to adjust the 4 mA and 20 mA references.

03 SPAN calibration

Turn ON switch 7, then switches 4 and 6. Supply the specified calibration gas at 500 mL/min for at least 60 seconds and until stable, then press ENT once. Confirm that the LED flashes three times.

First: 7 ON



Then: 4 and 6 ON



04 Save and restore

Follow the save-button procedure for the specific board when changing an output reference. Remove the calibration gas and return all DIP switches to OFF. Verify normal output, alarms, communications and interlocks, and record the work.

All OFF after the task

This is a quick reference for DIP operation. For installation, wiring, zero adjustment and troubleshooting, also consult the PGR-TR user manual.

Source: final company DIP guide, 2024.12 · Diagram revision: 2026.11.03