

Operation Manual

Dual Sensor Differential Pressure Monitor

ASAS (APPLIED SENSOR ASSISTANCE SYSTEM)



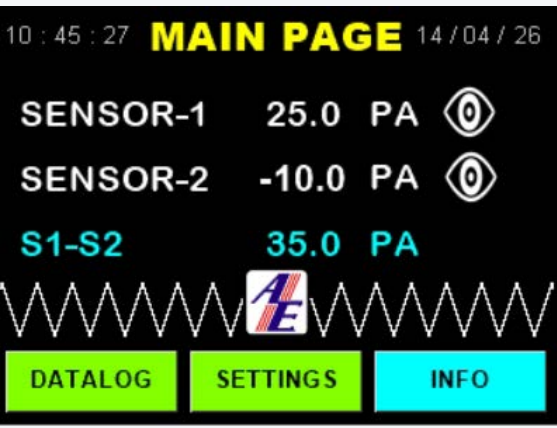
Startup splash screen shown during power-up

Device focus	Manual basis	Recommended use
Two-sensor differential pressure monitoring with live values, alarms, and communication settings.	This edition is inferred from visible screen labels and layouts only.	Use this guide together with site SOPs and commissioning records before changing settings.

SECTION 1

Device at a glance

The main screen shows Sensor-1, Sensor-2, and the differential value S1-S2 in Pa. It also exposes the primary navigation path used throughout the interface.



The screenshot shows the 'MAIN PAGE' with a black background. At the top, it displays the time '10:45:27' and date '14/04/26'. Below this, three sensor readings are shown: 'SENSOR-1 25.0 PA' with a gauge icon, 'SENSOR-2 -10.0 PA' with a gauge icon, and 'S1-S2 35.0 PA' with a gauge icon. A white waveform is visible below the S1-S2 reading. At the bottom, there are three buttons: 'DATALOG' (green), 'SETTINGS' (green), and 'INFO' (cyan).


Home screen display

- Live values for SENSOR-1, SENSOR-2, and S1-S2 in Pa.
- Current time and date in the top banner for situational awareness.
- DATALOG for logs and history, SETTINGS for editable parameters, INFO for device details.
- A useful post-change verification point after updating limits, offsets, or communication settings.

Device navigation flow: Startup -> Main Page -> DATALOG / SETTINGS / INFO

Datalog page

Datalog screen shows alarm log history details



The screenshot shows the 'ALARMLOG' screen with a black background. It lists five alarm events in red text:

- 04/10 16:35 SENSOR-1 HIGH 100.0 Pa
- 04/10 15:29 SENSOR-1 HIGH 50.0 Pa
- 04/10 15:29 SENSOR-1 HIGH 50.1 Pa
- 04/10 09:23 SENSOR-1 HIGH 416.6 Pa
- 03/27 15:36 SENSOR-2 HIGH 367.6 Pa

 At the bottom, there are two buttons: 'BACK' (purple) and '>' (cyan). Below the buttons, the text 'Alarm Log' is visible.

MAIN PAGE > DATALOG > ALARMLOG

Alarm Log

Use it for: Review recent alarm entries with sequence number, date, time, sensor, state, and value in Pa.

Typical action: Read the list top to bottom and use the cyan > button to open the next page of records when available.

SECTION 2

Sensor settings pages

Use the settings hub to reach sensor-specific pages for naming, alarm thresholds, correction, delay, and bypass.

Settings Menu

MAIN PAGE > SETTINGS

Settings Menu

Use it for: Central hub for editable sensor pages: NAME, HI LIMIT, LO LIMIT, OFFSET, BYPASS, and ALM DELAY.

Typical action: Open the required tile, choose SENSOR-1 or SENSOR-2, change the value on the next page, then return with BACK.

Sensor Name Edit

SETTINGS > NAME > SENSOR-1 / SENSOR-2

Sensor Name Edit

Use it for: Rename the selected sensor so operators see a site-specific label on the main page.

Typical action: Select the sensor, enter the new name on the next page, save, and verify the updated label on the home screen.

Operator note: Use short names that match plant documents and alarm reports.

Low Limit Setpoint

SETTINGS > LO LIMIT > SENSOR-1 / SENSOR-2

Low Limit Setpoint

Use it for: Set the low alarm threshold for the chosen sensor.

Typical action: Choose the sensor, enter the approved low setpoint, save, and update the commissioning record if required.

Operator note: Keep the low limit consistent with the expected operating range.

High Limit Set

SETTINGS > HI LIMIT > SENSOR-1 / SENSOR-2

High Limit Set

Use it for: Set the high alarm threshold for the chosen sensor.

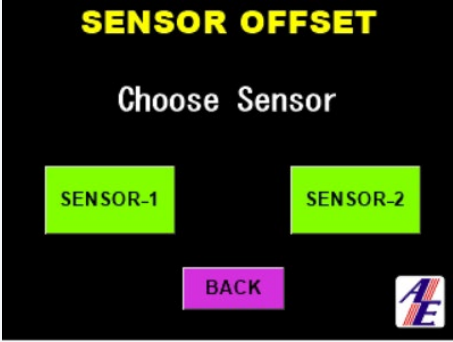
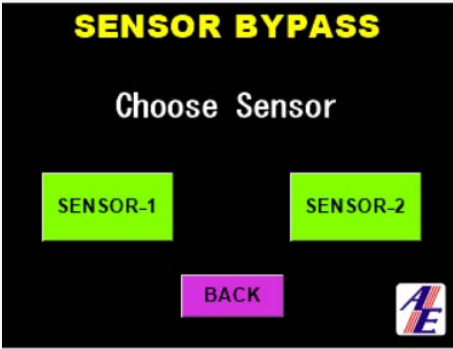
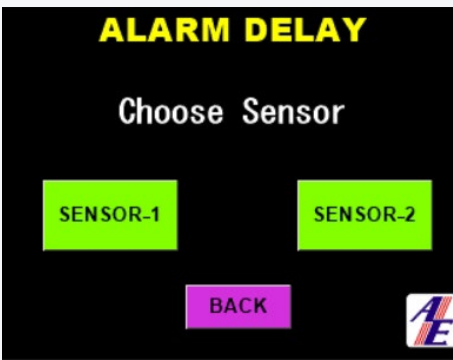
Typical action: Choose the sensor, enter the new threshold, save, and confirm the alarm response during normal operation or test.

Operator note: Record the old value before changing any alarm limit.

SECTION 2

Sensor settings pages

Use the settings hub to reach sensor-specific pages for naming, alarm thresholds, correction, delay, and bypass.

 <p style="text-align: center;">Sensor Offset</p>	<p>SETTINGS > OFFSET > SENSOR-1 / SENSOR-2</p> <h3>Sensor Offset</h3> <p>Use it for: Apply an offset correction to the live reading for the selected sensor.</p> <p>Typical action: Choose the sensor, enter the correction value from maintenance or calibration records, save, and check the live value.</p> <p>Operator note: Offsets should only be changed by authorized personnel.</p>
 <p style="text-align: center;">Sensor Bypass</p>	<p>SETTINGS > BYPASS > SENSOR-1 / SENSOR-2</p> <h3>Sensor Bypass</h3> <p>Use it for: Temporarily bypass monitoring or alarm action for the selected sensor.</p> <p>Typical action: Choose the sensor, enable or disable bypass on the next page, and verify the intended state on return.</p> <p>Operator note: Use bypass only for controlled maintenance and clear it as soon as work is complete.</p>
 <p style="text-align: center;">Alarm Delay</p>	<p>SETTINGS > ALM DELAY > SENSOR-1 / SENSOR-2</p> <h3>Alarm Delay</h3> <p>Use it for: Delay alarm activation long enough to ignore brief transients.</p> <p>Typical action: Choose the sensor, enter the delay value on the edit page, save, and test the behavior if site procedures allow.</p> <p>Operator note: Use delay carefully so real process deviations are not hidden.</p>

SECTION 3

Device Info and setting

These screens show device information and setting tile for clock, network and serial communication

Info Page display

- Device name
- Software version
- DATALOG for logs and history, SETTINGS for editable parameters, INFO for device details.
- A useful post-change verification point after updating limits, offsets, or communication settings.

CLOCK SETTING

Clock Setting

Use it for: Update the controller time and date used in the header and alarm timestamps.

Typical action: Adjust HH:MM:SS and DD/MM/YY, press UPDATE, then return and confirm the header time/date is correct.

Operator note: Reset the clock after power loss, replacement, or site time changes.

Clock Setting

SECTION 3

Network and serial communication

Communication changes affect external connectivity. Follow site change control and verify after every update.

	<p>RS485 CONFIG RS485 Config Use it for: View or change serial communication settings such as SLAVE ID and BAUDRATE. Typical action: Check the current settings, edit the required value on the next page, save, restart, and confirm communication with the supervisory system. Operator note: Other serial parameters are shown as fixed at 8,N,1.</p> <p style="border: 1px solid red; padding: 2px;">Restart the device after updating communication settings.</p>
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	<p>IP CONFIG IP Config Use it for: View or change the device IP address. Typical action: Record the current address, enter the approved new address if required, save, restart, and then verify network communication. Operator note: Do not change network settings without the approved address plan.</p> <p style="border: 1px solid red; padding: 2px;">Restart the device after updating the IP address.</p>
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Operating practice notes:

- Record the original value before changing any limit, offset, or communication setting.
- After a configuration change, verify the live readings and alarm behavior from the main page.
- Keep bypass periods short and document both the start and end of the bypass condition.
- Keep the clock accurate so alarm log timestamps remain useful for investigation and reporting.
- Use this guide with site SOPs and commissioning records, especially for IP and RS485 changes..