Yokogawa AIP830-101 S2

01 Operator functions and key layout

Map the operator functions

Retain the existing HIS assignments for the 64 function keys and the intended process windows. The physical keyboard replacement does not recreate missing application assignments.

Check the mode and confirmation keys

Compare the mode selector and Type A confirmation symbols with the installed operator procedure. Make any application-level changes through the approved HIS configuration workflow.

Assignable function keys	64
Mode selector	Included in -101 configuration
Confirmation symbols	Type A

02 Separate keyboard and sound links

Connect the keyboard USB plug

Connect the keyboard function directly to the computer and verify device recognition. Do not treat a working sound connection as proof that keyboard communication is present.

Connect the independent sound plug

Attach the second USB plug directly to the same HIS computer. Check the sound device separately so that audio operation is not mistaken for the electronic buzzer function.

Computer connections	2 × USB Type A, both directly to HIS
Keyboard interface	USB 2.0 full speed, bus powered
Sound interface	USB 1.1 full speed, bus powered
Supply	5 V ±5% from PC USB
Maximum current	1 A

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03 Function calls and confirmation logic

Exercise function-key calls

Open the intended process windows using several assigned keys, including assignments from different groups. Confirm that each key invokes its assigned operation in a controlled test context.

Test entry and confirmation

Check alphanumeric entry, numeric keys and the confirmation sequence without issuing an unintended live control command. Confirm mode-switch behavior against the configured operator privileges.

Assignable function keys	64
Confirmation symbols	Type A

04 Alarm handling and key combinations

Verify alarm acknowledgement

Test the alarm acknowledgement and buzzer-reset functions using the approved HIS test procedure. Confirm that audible behavior and visible acknowledgement correspond to the test alarm.

Review Fn combinations

Check page-key volume control, cursor-key scrolling and clear-screen behavior with Fn. Record any non-default clear-screen setting that changes the expected operator action.

Keyboard interface	USB 2.0 full speed, bus powered
Sound interface	USB 1.1 full speed, bus powered

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05 HIS operating conditions and handover

Confirm the operating environment

Measure the desk or panel environment against +5 to +40 °C and 20–80% non-condensing humidity. Keep liquids and condensation away from the keyboard and USB connections.

Hand over the HIS configuration

Retain the exact AIP830-101 S2 identity, direct USB connection map, function-key assignments and audio test results. Ensure the operating team understands the tested mode and confirmation sequence.

Technical basis: Yokogawa AIP830 Operation Keyboard for Single-loop Operation, GS 33J50C32-01EN, 2nd edition.

Related product navigation

- Yokogawa AIP502
- Yokogawa AIP512

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