Yokogawa AIP830-101 S2

01 Operation Keyboard / system role

Product function and operating context

Yokogawa AIP830-101 S2 gives a CENTUM operator direct access to process-control windows, alarm acknowledgement and loop manipulation while retaining alphanumeric entry.

The keyboard connects to one Desktop Type HIS through two USB Type-A plugs. Both plugs must connect directly to the computer: one serves the keyboard function and the other supports the independent USB sound function.

Functional path

Operator action	Keyboard controls	Two USB functions	Desktop Type HIS

Operator access	64 assignable function keys
Connectivity	Two direct USB connections
Audio	Independent USB speaker and buzzer

The -101 configuration provides a mode selection switch and Type A operation-confirmation key symbols. The 64 user-definable function keys can call application-specific operations, while dedicated window and cursor keys reduce reliance on general PC keyboard shortcuts.

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02 Technical operating envelope

Assignable function keys	64
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
Mode selector	Included in -101 configuration
Confirmation symbols	Type A
Operating temperature	+5 to +40 °C
Operating humidity	20–80% RH, non-condensing

AIP830-101 functions and suffix selections apply to this offered AIP830-101 S2 identity. The S2 marking does not establish additional electrical or functional ratings.

Operating interpretation

The independent sound connection and buzzer should be checked separately; hearing one does not verify the other.

Configuration boundary

Retain the exact suffix, confirmation symbols, mode-switch arrangement and HIS software configuration when replacing the keyboard.

How is speaker volume adjusted on AIP830-101 S2?

The page keys also act as volume-control keys when used with Fn. Verify the independent USB speaker connection if this produces no sound change.

Can the cursor keys on AIP830-101 S2 scroll a window?

Yes. Pressing them with Fn invokes their scrolling function instead of ordinary cursor movement.

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03 System integration and applications

Single-loop operations

Provide direct loop manipulation and confirmation keys at a Desktop Type HIS.

Operator window navigation

Use dedicated window-call keys and configured function-key assignments for plant views.

Alarm response

Combine alarm acknowledgement, buzzer reset and independent sound in the operator workflow.

Process data entry

Use alphanumeric and numeric entry with the intended confirmation-key configuration.

System and supply context

Yokogawa AIP830-101 S2 operates within the following defined system context. Preserve AIP830-101 S2 and confirm mode-switch and key-symbol configuration.

Application boundary

The applications below describe its technical role. Select associated hardware and configuration for the actual installation.

How many process-specific shortcuts can be assigned on AIP830-101 S2?

There are 64 user-definable function keys, in addition to dedicated process-control and window-call keys.

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04 Engineering selection decisions

Why does AIP830-101 S2 need two USB connections?

The keyboard and independent sound function use separate USB connections. Both connectors must be attached directly to the HIS computer.

Does the -101 configuration of AIP830-101 S2 include a mode selector?

Yes. The -1 selection provides the mode selection switch, and the remaining configuration uses Type A confirmation symbols.

What prevents an unintended clear-screen action on AIP830-101 S2?

The default action requires Fn together with the clear-screen key. Hardware settings can change this behavior, so confirm the configured operation.

Are the buzzer and USB speaker of AIP830-101 S2 the same function?

No. The independent USB speaker handles sound separately from the electronic buzzer used for buzzer alarms.

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.
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.

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05 Configuration boundary and references

Lifecycle and support

The current manufacturing and factory-support phase of AIP830-101 S2 is unconfirmed. Apter Power availability is assessed separately from manufacturer lifecycle status.

Replacement assessment

Retain the exact suffix, confirmation symbols, mode-switch arrangement and HIS software configuration when replacing the keyboard.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; use it together with the applicable manufacturer instructions.

Technical basis

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

Related product navigation

- Yokogawa AAI841-H00 S2
- Yokogawa AAI835-S00 S2

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

Product enquiries