

# Yokogawa F3RP45-2PL1

FA-M3 Control Module

**Product identity and function**

Yokogawa F3RP45-2PL1 is a legacy FA-M3 control-system article. The supplied Yokogawa hardware manual governs FA-M3 installation, power, grounding and handling; the complete -2PL1 suffix must be verified from the installed nameplate.

**01 / Function**

Belongs to the Yokogawa FA-M3 modular automation platform

**02 / Function**

Uses the FA-M3 system installation and power-supply rules

**03 / Function**

Requires controlled grounding, cable routing and ESD handling

**04 / Function**

Retains a legacy identity whose complete suffix must be recorded before replacement

| PRODUCT FIELD              | OFFICIAL VALUE                       |
|----------------------------|--------------------------------------|
| Manufacturer               | Yokogawa Electric Corporation        |
| Supplied model identity    | F3RP45-2PL1                          |
| Official base-model record | F3RP45-2P                            |
| Product platform           | FA-M3 / e-RT3 modular control system |

Evidence boundary: Exact article evidence is limited to Yokogawa's F3RP45-2P lifecycle listing and the supplied FA-M3 hardware manual. The -2PL1 suffix and installed project configuration must be verified from the nameplate and controlled site records.

Evidence reviewed: Yokogawa FA-M3 Hardware Manual IM 34M06C11-01E and FA-M3 / e-RT3 discontinued-product list TI 34M06Z40-01.

# Official technical parameters

Yokogawa F3RP45-2PL1 / verified set 1

| PARAMETER                     | VERIFIED VALUE                                                       |
|-------------------------------|----------------------------------------------------------------------|
| Manufacturer                  | Yokogawa Electric Corporation                                        |
| Supplied model identity       | F3RP45-2PL1                                                          |
| Official base-model record    | F3RP45-2P                                                            |
| Product platform              | FA-M3 / e-RT3 modular control system                                 |
| Lifecycle record              | F3RP45-2P sales ended 2010-09-30; official support is shown as ended |
| Applicable hardware manual    | IM 34M06C11-01E                                                      |
| Ambient operating temperature | 0 to 55 deg C                                                        |
| Relative humidity             | 10 to 90% RH, noncondensing                                          |

## Common applications

|                                                                                                                                                                          |                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Legacy FA-M3 station maintenance</b></p> <p>Maintains an installed FA-M3 control station after the exact F3RP45-2PL1 nameplate and configuration are recorded.</p> | <p><b>FA-M3 system restoration</b></p> <p>Restores the assigned module position under the Yokogawa hardware installation rules.</p> |
| <p><b>Industrial controller renewal</b></p> <p>Supports a controlled replacement workflow where project, power and I/O identities are preserved.</p>                     | <p><b>Installed-base support</b></p> <p>Provides a documented engineering boundary for a discontinued FA-M3 article.</p>            |

Evidence reviewed: Yokogawa FA-M3 Hardware Manual IM 34M06C11-01E and FA-M3 / e-RT3 discontinued-product list TI 34M06Z40-01.

# Applications and product precautions

Yokogawa F3RP45-2PL1

## 01 / Check

Verify F3RP45-2PL1 exactly as marked; do not substitute the documented F3RP45-2P base identity for an unverified suffix.

## 02 / Check

Back up the installed FA-M3 project, module position, network settings and associated I/O information before removal.

## 03 / Check

Stop the controlled process and turn off every applicable system and field supply before installing or removing the module.

## 04 / Check

Use only the documented FA-M3 power-supply arrangement and confirm the total current-consumption plan before energizing.

## 05 / Check

Connect a low-impedance protective earth and follow the Yokogawa CE earthing method where it applies.

## 06 / Check

Discharge static electricity before touching the module, connectors or backplane interfaces.

## 07 / Check

Secure connectors and route communication or signal wiring away from power and other noise sources.

## 08 / Check

After restoration, execute a controlled trial run and verify diagnostics, communications, I/O operation and emergency-stop response before release.

# Model-specific engineering FAQ

Yokogawa F3RP45-2PL1

## How should the exact F3RP45-2PL1 identity be verified?

Record the complete installed nameplate. Yokogawa's lifecycle list confirms the F3RP45-2P base model, while the supplied source does not define the added L1 suffix.

## What is the lifecycle status of F3RP45-2PL1?

Yokogawa lists F3RP45-2P with sales ended on 2010-09-30 and support ended; the exact installed suffix should still be preserved in the maintenance record.

## Which ambient range applies when servicing F3RP45-2PL1 in an FA-M3 station?

The supplied FA-M3 hardware manual specifies 0 to 55 deg C and 10 to 90% RH without condensation for the system installation.

## Which power-supply rule applies to F3RP45-2PL1?

Use the documented F3PUxx FA-M3 power-supply modules and check the complete station current-consumption restriction before energizing.

## Must power be removed before replacing F3RP45-2PL1?

Yes. Yokogawa instructs users to turn system power off before installing or removing FA-M3 modules.

## What ESD control is required for F3RP45-2PL1?

Discharge static electricity from the body before touching the module, connectors or backplane contacts.

## How should F3RP45-2PL1 grounding be handled?

Use a low-impedance protective-earth connection and the documented braided earth-conductor method where CE installation rules apply.

## What final checks are appropriate after installing F3RP45-2PL1?

Perform a controlled trial run and verify module identity, system diagnostics, communications, I/O response and the external emergency-stop circuit.

Answers are limited to the exact identity and the cited manufacturer evidence; project configuration remains installation-specific.

# Related products and contact

Verified ApterPower navigation links; not approved substitutes

| NO. | RELATED PRODUCT                 | APTERPOWER LINK                                           |
|-----|---------------------------------|-----------------------------------------------------------|
| 01  | Yokogawa NFCP501-W15 S2         | <a href="#">View Yokogawa NFCP501-W15 S2 page</a>         |
| 02  | Yokogawa ADV869-P00 S1          | <a href="#">View Yokogawa ADV869-P00 S1 page</a>          |
| 03  | Yokogawa ADV859-P00 S1          | <a href="#">View Yokogawa ADV859-P00 S1 page</a>          |
| 04  | Yokogawa AAM50                  | <a href="#">View Yokogawa AAM50 page</a>                  |
| 05  | Yokogawa CP451-10 S2            | <a href="#">View Yokogawa CP451-10 S2 page</a>            |
| 06  | Allen-Bradley 1756-L81E         | <a href="#">View Allen-Bradley 1756-L81E page</a>         |
| 07  | Allen-Bradley 1756-L83E         | <a href="#">View Allen-Bradley 1756-L83E page</a>         |
| 08  | Allen-Bradley 1756-L84E         | <a href="#">View Allen-Bradley 1756-L84E page</a>         |
| 09  | Yokogawa AAI835-S00-S2          | <a href="#">View Yokogawa AAI835-S00-S2 page</a>          |
| 10  | Yokogawa ADV859-P00-S1          | <a href="#">View Yokogawa ADV859-P00-S1 page</a>          |
| 11  | Yokogawa ADV869-P00-S1          | <a href="#">View Yokogawa ADV869-P00-S1 page</a>          |
| 12  | Siemens 39EAMCBN-16154-93-3     | <a href="#">View Siemens 39EAMCBN-16154-93-3 page</a>     |
| 13  | Siemens 39EAMCBN-A5E00282025-05 | <a href="#">View Siemens 39EAMCBN-A5E00282025-05 page</a> |
| 14  | Siemens 39MBXNAN-16180-1-14     | <a href="#">View Siemens 39MBXNAN-16180-1-14 page</a>     |
| 15  | Siemens 39MBXNAN-16180-1-17     | <a href="#">View Siemens 39MBXNAN-16180-1-17 page</a>     |
| 16  | Siemens 39RTMCAN-16207-61-10    | <a href="#">View Siemens 39RTMCAN-16207-61-10 page</a>    |

Recommendation links are navigation aids only and do not establish compatibility.

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