Low Power Autonomous Controller
FCN-RTU

Network-based Control System
STARDOM™
Low Power Autonomous Controller FCN-RTU
FCN-RTU

Radio, Satellite, GPRS, Telephone Line

Yokogawa’s PRM® Asset Management System lowers Operating Expense (OPEX).

- Appropriate Asset Management
Maintenance information is notified to the right person according to the device type and diagnostic data.

- Single Window
Maintenance personnel can browse all field assets on remote site and identify which require online diagnosis.

- Easy and Flexible Access
Historical data such as alarms, diagnosis results and maintenance records are all stored on PRM. They are easily filtered for quick analysis and used for preventive maintenance.

For Your Asset Management

Why use FOUNDATION™ fieldbus?

FOUNDATION fieldbus is an all-digital, serial, two-way communication system, which provides the following benefits.

- Efficient Asset Management
Remote device information can be centralized on PRM via FOUNDATION fieldbus. Real-time automated device checks reduce site patrols and prevent unexpected device failures.

- High Accuracy
FOUNDATION fieldbus improves the accuracy thanks to all-digital technology.

- Reducing Wiring Cost
FOUNDATION fieldbus reduces the wiring cost and simplifies the cable connections by means of multi-drop connection and multivariable transmission.

Yokogawa’s FAST/TOOLS™ SCADA system best suits scalable and distributed applications.

- High Availability Computing (HAC)
FAST/TOOLS hot-standby server configuration secures your applications.

- High Scalability
The number of I/O points is scalable, from less than a hundred to more than a million.

- Secured Data
Data during network failures are secured using data buffering mechanisms between FAST/TOOLS and FCN-RTU.

For Your Operation

FAST/TOOLS Hot-standby server configuration

A large number of FCN-RTU can be connected with FAST/TOOLS.

Impulse line blockages are detected, and maintenance person informed, thanks to FOUNDATION fieldbus.

Yokogawa Multivariable Transmitter EJX
FCN-RTU revolutionizes asset management for remote applications with digital technology.
Yokogawa’s STARDOM low power consumption model of Autonomous Controller FCN, the FCN-RTU is a robust solution to demanding requirements of applications where infrastructure is inadequate and conditions inhospitable and hazardous. It thrives in temperatures as extreme as −40 °C to 70 °C (−40 F° to +158 F°) and at altitudes up to 3,000 meters (9,842 feet). With its embedded auto sleep mode, the CPU provides reliable control while using a minimum of power. The power supply runs on a wide range of voltages supplied by solar batteries and comes with a battery monitoring function. Advanced control applications can be programmed using a variety of languages and a large collection of libraries developed over the years for Yokogawa’s DCS business. To support a wide range of control features, various autonomous capabilities, a web server, FTP, and logging functions are embedded, simplifying the efficiency of routine monitoring and operation from remote sites. FCN low power consumption model FCN-RTU is the ideal solution for geographically distributed applications, especially for gas wells and pipelines.
Yokogawa’s green intelligent RTU shines under the sun

**Robust construction**
- Thrives in remote and inhospitable locations
  -40 °C to +70 °C (−40 F° to +158 F°)
  Altitudes up to 3,000 m (9,842 ft)

**Explosion-protection**
- Applicable to hazardous field applications
  CSA Non-Incendive
  CENELEC ATEX Type “n”
  FM Non-Incendive Class I Division 2, Groups A, B, C, D T4
  IECEx Type “n”

**International standard language**
- All five IEC61131-3 languages for control functions
- Java languages for autonomous functions

**Field proven libraries based on DCS expertise**
- Specialized function blocks for regulatory control
  Easy programming of control applications using reliable Yokogawa libraries

**Gas flow calculation portfolio**
- Applications for gas metering
  AGA3, 7, 8, 9, 10, 11, GPA2172
  API21.1 compliance: totalizer, audit trail, and embedded logging functions

**Easy connection with GPRS**
- Embedded PPP function

**Autonomous features**
- Embedded Web applications
  Data logging and Web HMI using web server functions
  E-mail send and receive functions

**Expansion I/O modules**
- Scalable and configurable I/O
  Accommodates up to three configurable I/O modules
  (AI, AO, DI, DO, PI, FOUNDATION™ fieldbus and HART)
  * Installation requirements for environment of FCN-RTU depends on I/O modules specifications.

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VigilantPlant is Yokogawa’s automation concept for safe, reliable, and profitable plant operations. VigilantPlant aims to enable an ongoing state of Operational Excellence where plant personnel are watchful and attentive, well-informed, and ready to take actions that optimize plant and business performance.

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