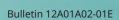






OpreX[™]Analyzers

2-Wire Liquid Analyzer FLXA21

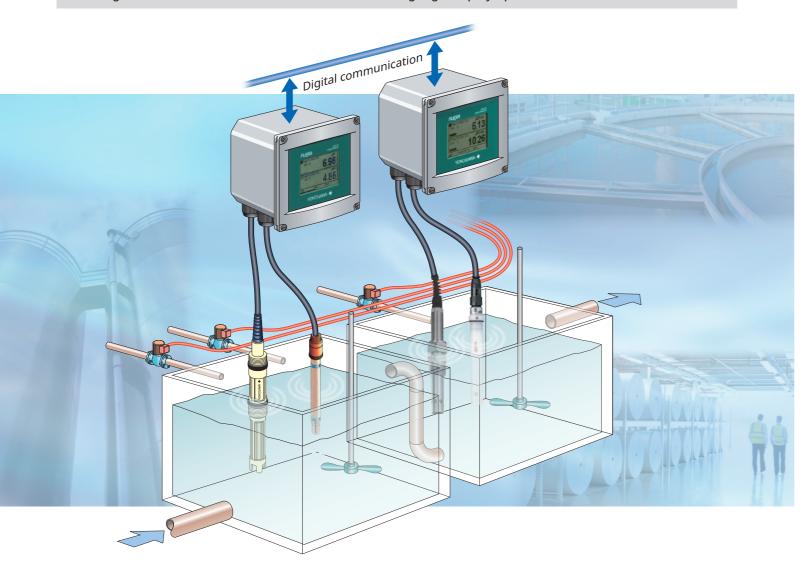


The FLXA21 Modular 2-wire Liquid Analyzer can measure several different liquid properties and supports the use of up to two sensors.

Modular 2-wire Liquid Analyzer FLXA21

The FLXA21 is a next-generation modular liquid analyzer that can be flexibly configured to measure pH/ORP, contacting conductivity, inductive conductivity, or dissolved oxygen.

The FLXA21 also supports the installation of up to two sensors of the same type, thereby reducing installation costs and saving space in addition to enabling the configuration of a highly reliable redundant system. It has reliable and advanced features and functions such as a touch screen for improved operability, sensor self-diagnosis, maintenance time estimation, and 12 language display options.



Support of Up to Two Sensors and Digital Communications for Increased Reliability and Reduced Maintenance and Instrumentation Costs

- The FLXA21 supports the use of up to two
- * The two sensors must be of the same type.
- * With inductivity sensors, only one sensor may be connected.
- Redundant system with two sensors increases measurement reliability.
- Measurement at two points with a single analyzer reduces installation costs and saves space.
- Interruption-free measurement is assured even during maintenance.
- Digital communications options for reduced maintenance and instrumentation costs

HART Communication FOUNDATION™ Fieldbus Communication **PROFIBUS PA Communication**

Modular Design for Increased Scalability

- The modular design enables the construction of a variety of systems.
- System changeover can be done quickly and easily by replacing and adding modules*.
- Intrinsically safe type of ATEX, IECEx, FM, CSA and NEPSI, and non-incendive of FM and CSA.
- * Should be done by Yokogawa Service.



Touch Screen for Improved Operability

- The interactive touch screen is easy to use and helps eliminate operator errors.
- Several different display modes are available.
- In the event of an error, the screen displays an error code and indicates the corrective action to be taken.
- With routine operations, prompts and other messages eliminate the need to consult the instruction manual.





Advanced Functions

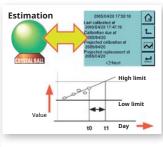
- Sensors with self-diagnostics capabilities
- Continuous measurement of sensor impedance, asymmetric potential, and slope, and continuous monitoring for electrode contamination/damage, burnout, and decline in measurement liquid level (ex. pH Analyzer)
- Display of sensor status and estimated maintenance time

Save the latest five calibration results and estimate the future maintenance and calibration times.

Quick setup

Screen instructions (guidance messages) make setup guick and





Full Sensor Line-up for a Broad Range of Applications

■ The FLXA21 can be connected to a wide variety of pH/ORP, contacting conductivity, inductive conductivity, and dissolved oxygen sensors.





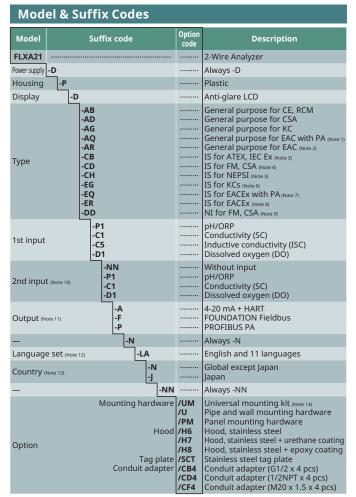




General Specifications	
Housing Protection	Case: Plastic Window: Polycarbonate IP66 (except Canada), NEMA Type 4X (USA), CSA Type 3S/4X (Canada)
Outline Dimensions	144 (W) x 144 (H) x 151 (D) mm
Weight	Approx.1 kg
Display	Black/white LCD with a touch screen (213 x 160 pixels)
Mounting	Pipe, wall or panel mounting Conduit adapter: G1/2, 1/2 NPT or M20 x 1.5
Environmental Conditions	Ambient temperature: -20 to 55°C Storage temperature: -30 to 70°C Ambient humidity: 10 to 90%RH (40°C) (Non-condensing)
Power Supply	Nominal 24 V DC loop powered system (output: -A) 9 to 32 V DC (output: -F, -P)
Regulatory Compliance	Safety: UL 61010-1, UL 61010-2-030 CAN/CSA-C22.2 No.61010-1, CAN/CSA-C22.2 No.61010-2-030 EMC: EN61326-1 Class A, Table 2 (For use in industrial locations) EN61326-2-3, EN61326-2-5 (output: -F, -P), AS/NZS CISPR11 Korea Electromagnetic Conformity Standard
Hazardous Location Approvals	ATEX, IECEx, FM, CSA, NEPSI
Output Signal	One isolated output of 4 to 20 mA DC, 2-wire system
Communication	HART, FOUNDATION Fieldbus, PROFIBUS PA

Refer to the GS12A01A02-01E for detailed specification.

Outline Dimensions Unit: mm 144 141 4 137 $(I_{-}II_{-}I)$ U.J. For sensor 1 cable (For sensor 2 cable) ∰ 80 ⑽ 0 For power supply For grounding cable الدللدلا 44.9 20.2 4-M6 depth 5



Notes

- The type "-AQ" is General purpose type of EAC with Pattern Approval for Russia.
 The type "-AR" is General purpose type of EAC for Kazakhstan and Belarus.
 The type "-CB" intrinsic safety type of ATEX and IECEx. Temperature class is T4. Product
- 3: registration is done by Yokogawa Taiwan Corporation as an importer in Taiwan. The type "-CD" is intrinsic safety of FM and CSA, and non-incendive of FM and CSA.
- Temperature classes are T4.
 The type "-CH" intrinsic safety type for NEPSI. Temperature class is T4.

- The type "-EG" intrinsic safety type of KCs for Korea. Temperature class is T4.
 The type "-EQ" intrinsic safety type of EAC with Pattern Approval for Russia. Temperature 7:
- The type "-ER" intrinsic safety type of EAC for Kazakhstan and Belarus. Temperature class is
- The type "-DD" nonincendive type for FM. Temperature class is T4.
- 10: When a 2nd input is selected, only the same kind of the 1st input is available. For example, when a 1st input is "-P1", the 2nd input must be the same "-P1". The combination of ISC and ISC is not available.
- 11: The FLXA21 has output types of "FOUNDATION Fieldbus" communication (suffix code: -F) and "PROFIBUS PA" communication (suffix code: -P). Refer to GS 12A01A02-71E and GS 12A01A02-72E.
- 12: These languages are message languages on the analyzer's display. One analyzer has English and 11 languages. All languages are as follows; English, Chinese, Czech, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian and Spanish.
- 13: When an analyzer is used in Japan, it must meet the Japanese Measurement Law. Only SI units must be used on the analyzer and its documents in Japan.
- 14: The universal mounting kit contains the pipe and wall mounting hardware (/U) and the panel mounting hardware (/PM).

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