Fiber Optic Level Systems

Detect leaks, protect pumps and prevent spills in hazardous areas with LEVELITE's miniature Fiber Optic Level Sensors for OEM systems.

FIBER OPTIC CONTROLLER

*use with **LEVELITE** fiber optic probes*

General Specifications

- AC: 120 or 240V (50/60 Hz), 1.4 VA
- DC: 12 or 24V (-25% to +15%), 1.8 W
- Accepts fiber optic probes
- 10 A, SPDT relays (1/3 hp @ 120 VAC)
- 1-60 second time delay adjustment

- High or low level failsafe adjustment
- LED alarm status indicator
- Polycarbonate enclosure
- For flammable materials, fiber optic controllers eliminate all voltage at the sensor

Fiber Optic Level Switch and Pump Controller, 2 Channel

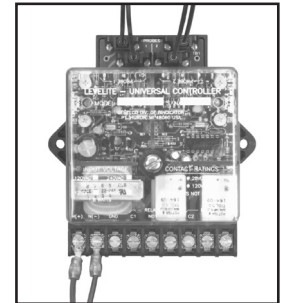Choose fiber optics to maintain maximum safety in hazardous areas
- Provides dual alarms
- Automatic pump up or pump down operation
- Accepts fiber optic probe input

Description	Part Number
120VAC	GLL102F1N
240VAC	GLL102F2N
12VDC	GLL102F3N
24VDC	GLL102F4N

GLL102F2N

FIBER OPTIC PROBES

*use with **LEVELITE** fiber optic controller*

General Specifications

- Operate with fiber optic controllers
- 1/2" NPT process and conduit connections
- Repeatability: 0.5 mm
- Includes acrylic fiber optic cable with connectors (length cannot be field modified)

A Popular Industry Choice for...

- Hazardous areas
- Ultrapure water and water treatment
- Semiconductor and pharmaceutical manufacturing
- Laboratory testing and chemical dispensing systems
- Leak detection in electronic enclosures, dual containment piping, and diked areas
- Beverages, chemicals, acids, caustics, water, epoxys, lubricants, glycols, vegetable oils, adhesives and solvents

Versatility is the key to LEVELITE's Fiber Optic Level Sensors. Ideal for controlling any transparent or translucent liquid.

- Compact sensors fit anywhere
- PFA Teflon® probe for all high purity and corrosive liquids
- Detects liquids regardless of conductivity, color or specific gravity
- Eliminates pump cavitation when installed upstream of the pump
- Automatic pump control and high or low alarms
- For flammable materials fiber optics eliminate all voltage at the sensor

FIBER OPTIC PROBES (cont'd)   use with LEVELITE fiber optic controller

PFA Teflon® Fiber Optic Probe

Prevent accidental ignition in hazardous areas because no energy is used at the probe.
- Use with the Two Channel controller, only
- Operating Temperature: -20° F to 200° F (-29 to 94° C)
- Max Pressure: 100 psig (7kg/cm²)

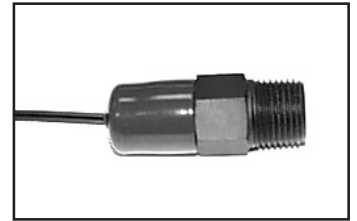| Description	Part Number
6 Ft (1.82m) Fiber Cable	GLL110121
10 Ft (3m) Fiber Cable	GLL110122
15 Ft (4.5m) Fiber Cable	GLL110123
25 Ft (7.6m) Fiber Cable	GLL110124

GLL110121

LEVELITE's quartz tip fiber optic probes (designed for use with quartz tips) prevent accidental ignition in hazardous areas because no energy is used at the probe. The quartz tips are excellent for high pressure or high temperature applications, and also provide excellent corrosion resistance to many chemicals and solvents. The Teflon® light guide on the probe tip concentrates the light coming through the probe for greater signal strength. **Order probe and quartz tip separately.**

Quartz Tip Polypropylene Fiber Optic Probe

- Excellent for High Level
- $1/2$" NPT Process Connection
- Operating Temperature: -20° F to 150° F (-29° C to 65° C)
- Max Pressure: 100 psig (7kg/cm²)

Description	Part Number
6 Ft (1.82m) Fiber Cable	GLL110125
10 Ft (3m) Fiber Cable	GLL110126
15 Ft (4.5m) Fiber Cable	GLL110127
25 Ft (7.6m) Fiber Cable	GLL110128

GLL110126

Quartz Tip 316 SS Fiber Optic Probe

- Excellent for High Level
- Operating Temperature: -20° F to 212° F (-29° C to 100° C)
- Max Pressure: 500 psig (35 kg/cm²)

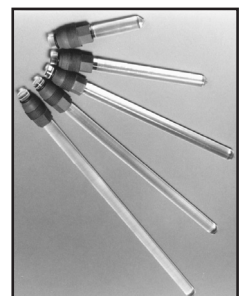| Description	Part Number
6 Ft (1.82m) Fiber Cable	GLL110129
10 Ft (3m) Fiber Cable	GLL110130
15 Ft (4.5m) Fiber Cable	GLL110131
25 Ft (7.6m) Fiber Cable	GLL110132

GLL110129
shown with quartz tip

Quartz Tips

- $5/8$" to 10" Insertion Length
- Rulon® Seal
- Teflon® Light Guide
- Viton® O-Ring

GLL numbers increase by 10 with every inch (25.4mm). No half sizes.

Description	Part Number
$5/8$" (15.88mm)	GLL111000
1" (25.4mm)	GLL111010
...	
10" (254.0mm)	GLL111100

Quartz Tips

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