

LIQUI-SENSE® EMERGENCY CUT-OFF FLUID MONITORING SYSTEM

FEATURES/BENEFITS

- ▶ Use with any style pump or where a fluid connection (potential leak source) exists
- ▶ Detects leaks and hazardous fluid loss
- ▶ Provides 24-hour protection
- ▶ Prevents flooding and pump damage
- ▶ If pump fails, system turns pump off and turns on back-up pump
- ▶ Two sensor options:
 - ◆ Liquid detector pad senses leaks
 - ◆ Float-switch—detects level changes
- ▶ Connections for one or two sensors with individual sensitivity adjustments
- ▶ Monitor two points in a single system or two independent systems
- ▶ Audible and visible alarms
- ▶ Alarm requires manual reset—prevents accidental restarting after detected problem

SPECIFICATIONS for Liqui-Sense® Controller

Catalog number	FD-77096-00	FD-77096-05
Performance Specifications		
Audible alarm sound level	90 dBA	
Electrical Specifications		
Contact closure rating	30 VDC—1 A maximum	
Voltage VAC (50/60 Hz)	90 to 115	180 to 230
Current	10 A	6.3 A
Physical Specifications		
Housing material	ABS plastic	
IP rating*	IP22	
Operating temperature	0 to 40°C (32 to 104°F)	
Storage temperature	-45 to 65°C (-49 to 149°F)	
Humidity	0 to 85%	
Dimensions (L x W x H)	20.6 x 16 x 7.6 cm (8 1/8" x 6 3/8" x 3")	
Shipping weight	1.4 kg (3 lb)	

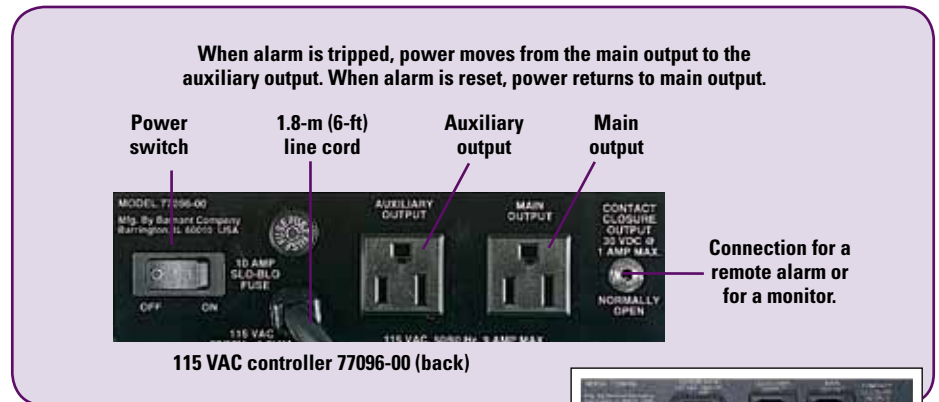
*See page 194 for explanation of IP ratings.

HOW TO ORDER

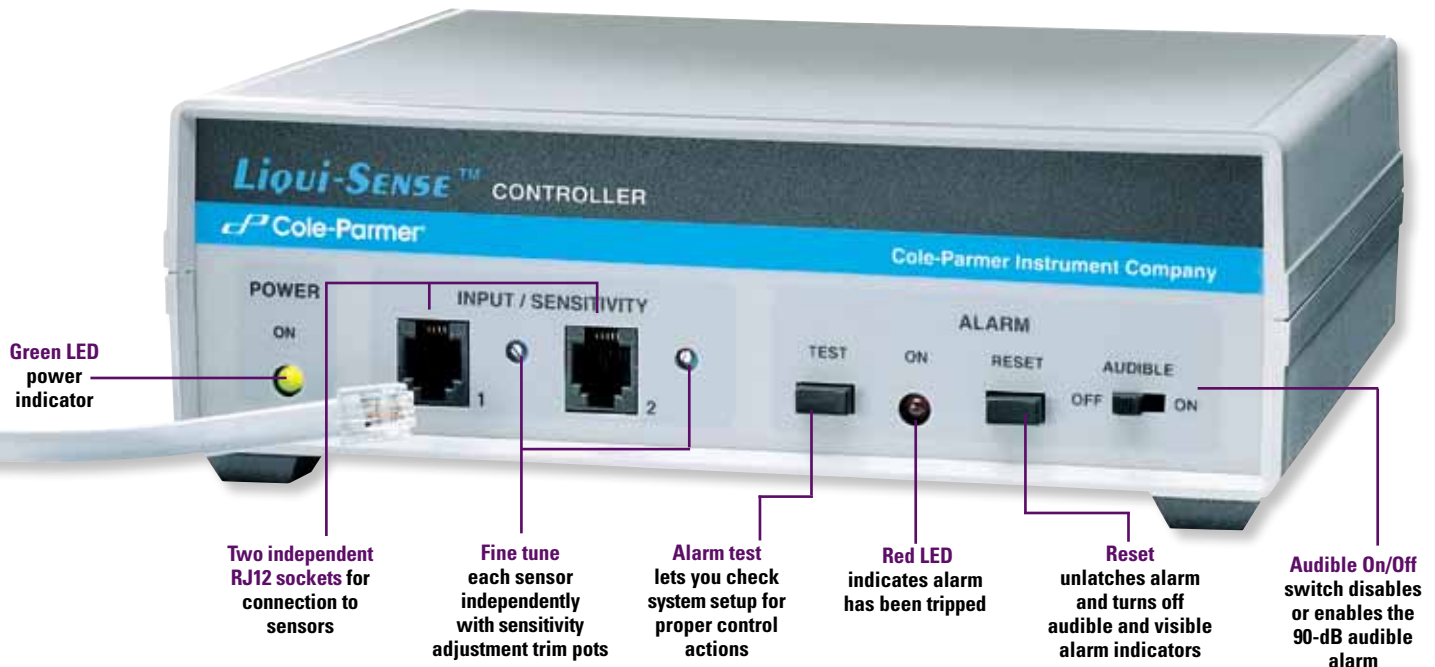
1. Order a Liqui-Sense controller.
2. Choose from two sensors to detect fluid process problems: the liquid detector pad senses fluid leakage, and the float-switch level sensor detects critical levels of fluid in a vessel.
3. Select optional 24-hour monitor, cord, or cables.

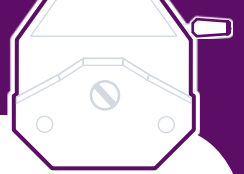
1 CONTROLLER ORDERING INFORMATION

Catalog number	Power	Socket
FD-77096-00	90 to 115 VAC, 50/60 Hz	US Standard
FD-77096-05	180 to 230 VAC, 50/60 Hz	IEC 320F



ISO9001:2008 CERTIFIED SUPPLIER CE 2 year warranty





2a LIQUID DETECTOR PAD

- ▶ Capacitance sensor pad detects leaks
- ▶ Less than 1 mL of most fluids will trigger the alarm
- ▶ Virtually eliminates loss of costly fluid or damage from hazardous chemicals
- ▶ Factory calibrated for water—calibration adjustment required for other fluids
- ▶ Polyester pad wipes clean after spills
- ▶ Velcro® strip holds sensor pad in place
- ▶ Pad measurement: 12.7 cm L x 6.7 cm W (5" L x 2 5/8" W)
- ▶ Includes a 1-m (3 1/2-ft) shielded connecting cable. Order extension cables separately under "Accessories" below.



Liquid detector pad
77095-00



ORDERING INFORMATION

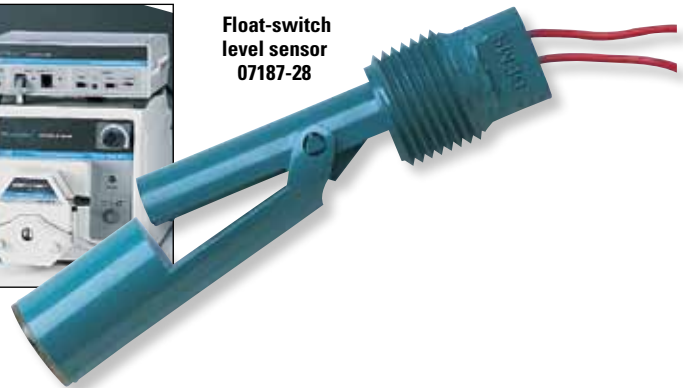
Cat. no.	Description
FD-77095-00	Liquid detector pad
FD-77095-02	Replacement connecting cable 1-m (3 1/2-ft), RJ12 connections

2b FLOAT-SWITCH LEVEL SENSOR

- ▶ Fluid level monitored by placing sensor in either the fluid source or destination
- ▶ Sensor triggers alarm when fluid level changes
- ▶ Mounts in the side of tank through 1/2" NPT(F) bulkhead (not included)
- ▶ Hinged float-switch swings magnet into place to trip reed switch
- ▶ UL-recognized, CSA- and CE-certified
- ▶ 0.6-m (2-ft) two-wire sensor lead must be adapted to fit RJ12 socket on controller (use connecting cable 77095-02)



Float-switch
level sensor
07187-28



ORDERING INFORMATION

Cat. no.	Description
FD-07187-28	Polypropylene float switch; requires connecting cable 77095-02
FD-07187-30	Nylon float switch; requires connecting cable 77095-02
FD-77095-02	Connecting cable with RJ12 connectors, 1 m (3 1/2 ft)

3 Accessories

FD-08330-20 24-hour application monitor; automatically dials phone or pager under alarm condition. Requires cable 23000-70

FD-23000-70 Interface cable for monitor 08330-20

FD-77096-55 Pump interface cord. Connects Liqui-Sense to 230 VAC pump with European plug.

FD-77095-03 Extension cable, 3.0-m (10-ft) with RJ12 connection for all sensors.

FD-77095-04 Extension cable, 4.5-m (15-ft) with RJ12 connection for all sensors.

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