

Aquarian Single Probe Alarm Module

The Aquarian Single Probe Alarm Module (Aquarian SP) represents the latest advancement in electronic level detection. Based on the conductivity probe technology now widely accepted in the industry, it was specifically designed to meet increasing industry demand for a reliable, cost effective and versatile means of sensing water in various applications.

The Aquarian SP is an accurate and reliable instrument that provides positive indication of steam or water in high temperature and pressure applications.

The proven Aquarian probe and pressure vessel form a resistivity cell. The Aquarian SP measures resistance, and reports the presence of either steam or water based on fluid conductivity.

The probe can be mounted directly to the pressure vessel, by welding the probe connector in a Tee, or column. Its Swagelok metal to metal seal assures a leak proof installation.

The Aquarian SP Module is an effective electronic replacement for mechanical float switches. The SP Module can be conveniently located up to 65 feet away from the probe with low conductivity water, and 500 feet away with high conductivity water.

Three LED indicators provide visual verification, showing “WATER”, “STEAM” AND “POWER/CLOCK”. The “POWER/CLOCK” LED flashes under normal conditions to show that power is present and the clock is properly functioning.

The two “Form-C” type contacts provide relay outputs for control circuits or remote indicators.

FEATURES AND BENEFITS

- Stand alone plug-in module
- Relay can be set as “fail safe” in case of power failure
- 120 or 240 VAC operation, 50/60Hz
- Proven electronic sensor – no moving parts to fail
- Power/Clock fault monitor
- Field configurable to handle service requirements
- Local indication (up to 500 feet away)
- Two “FORM-C” type relay contacts
- Ideal replacement for float switches



Controlling
the **power**
of **steam**

Aquarian Single Probe Alarm Module

SPECIFICATIONS

- Supply Voltage: 120VAC or 240 VAC
- Supply Frequency: 50/60 Hz
- Supply Current: 1/2 amp @ 120VAC and 1/4 amp @ 240VAC Relay Contact: 2 Form "C"
- Contact Rating: 5 Amp at 24VDC or 120VAC
- 1/3 hp @ 120VAC
- LED Indicators: Water, Steam, Power/Clock
- Conductivity Capability: .5 micro mho and up
- Probe Output voltage: ± 5 VDC
- Low Pressure Probe Rating: 650 psi @ 500°F
- High Pressure Probe Rating: Above 650 psi
- Operating Ambient Temperature Electronics: 32°F to 140°F
- Weight: 2.3 lbs

APPLICATIONS

- Mainstream header drain
- Hot and cold reheat drains
- Turbine extraction drain
- Turbine water induction prevention (TWIP)
- Main boiler high/low alarms and trips
- Hot well alarms
- Deaerator storage level alarms
- HP and LP Feedwater heater—column level alarms and trips
- Generator coolant liquid level
- Blow-down flash tank alarm
- Turbine casing drains

AQUARIAN SINGLE PROBE ALARM MODULE SYSTEM

Each Aquarian Single Probe Alarm Module System includes:

- Electronic Module
- HP or LP Probe
- Probe Cover
- Three feet of HT Wire
- 20 inches of Braided Conduit
- HP or LP 1/2" Type A male Socket Weld probe connector

Or

- HP or LP 1-1/2" male Socket Weld probe connector for welding in a 1-1/2" ANSI Class 3000# Socket Weld TEE.

ORDERING:

Request Form # 9340-1205

PART NUMBER	PROBE TYPE	PROBE MOUNTING
9399-2200	LOW PRESSURE	1/2" TYPE "A" CONNECTOR FOR MOUNTING INTO PRESSURE VESSEL
9399-2201	HIGH PRESSURE	1/2" TYPE "A" CONNECTOR FOR MOUNTING INTO PRESSURE VESSEL
9399-2202	LOW PRESSURE	1-1/2 INCH CONNECTOR FOR MOUNTING INTO 1-1/2 INCH SW TEE
9399-2204	HIGH PRESSURE	1-1/2 INCH CONNECTOR FOR MOUNTING INTO 1-1/2 INCH SW TEE
9399-2203	LOW PRESSURE	WELDED IN 1-1/2 INCH ANSI 3000# SW TEE
9399-2205	HIGH PRESSURE	WELDED IN 1-1/2 INCH ANSI 3000# SW TEE

*American Society of Mechanical Engineers

The manufacturer reserves the right to change the designs and materials of its products without notice.

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