

Model 354 • Pump Controller, Four Relay, 4-20 mA

Features

- Available for mounting in Delta Controls housings or in enclosures by others
- Housings may be surface or pipe stand mounted
- Optional direct reading LCD display
- Accepts 4-20 mA signal from any type transmitter; 2, 3 or 4-wire
- Supplies DC power for 2-wire loops and for 3 or 4-wire transmitters
- Optional pump control functions
- Lead/lag control
- Relay operate time delays
- Two alarm points
- Built-in loop power supply
- Selectable starting time delay
- Self checking diagnostic routine
- Continuous setpoint indication
- Optional explosion-proof housing

Description

The Delta Controls **Model 354** Pump Controller is operated as an alarm and/or adjustable differential level controller. Model 354 has two relays each featuring an individual **0–100% on** and **0–100% off setpoint**. It accepts a 4-20 mA dc input signal which is proportional to some process variable, usually level. The Model 354 is microprocessor based and checks its input signal loop for integrity. The relays may be set up for direct or reverse fail-safe action.

The 354 is equipped with a built-in loop power supply and accepts **remote powered** 4-20 mA signal. The input signal wiring may be equipped with an electrical barrier. The 354 must be located in a safe area and input signal wires may extend into the ignition hazard area through a suitable barrier.

Features, such as lead/lag pump rotation, time delay starting, and alarms may be programmed in the field. Up to **two pumps or alarm points** can be controlled can be actuated from a single 354 pump controller. The optional Model 328 3.5 digit LCD readout display, may be field calibrated for engineering units.



Model 354

Specifications

General Type:	Microprocessor based
Supply Power:	120 ACV , 240 ACV, 50 Hz, 60 Hz, 24 DCV \pm 15% variation
Input Range:	4-20 mA
Relays:	4,10 A at 250 ACV SPDT
Basic Switching Action:	Adjustable differential for on/off control
Accuracy:	0.1% of full scale
Transmitter Loop Power Supply:	24 DCV
Multiple Pump Control:	Selectable lead/lag, rotation of up to 4 pumps
Temperature Range:	-20 °F to +170 °F (-20 °C to +77 °C)
Housing Rating:	Classes 1 & 2, Divisions 1 & 2, Groups ABCD, EFG

Model Numbering System

MODEL EXAMPLE	MODEL	-	SUPPLY VOLTAGE	-	HOUSING RATING	-	OPTIONS ²
	354	-	1	-	4X	-	AA

MODEL	DESCRIPTION
354	Pump Controller, Four Relay, 4-20mA

SUPPLY VOLTAGE	DESCRIPTION
1	120 ACV, 50/60 Hz
2	240 ACV, 50/60 Hz
3	24 DCV

HOUSING RATING	DESCRIPTION
AA	None
4X	Environment-proof, 4X, Fiberglass
6X	Submergible, 6X, PVC
7W	Explosion-proof, 7X, Aluminum
7C	Explosion-proof; 7X; Stainless steel

OPTIONS ²	DESCRIPTION
AA	None
328	Direct reading 3.5 digit plug-in display, Loop powered
PSM	2 in pipestand or surface remote kit (not available with AA housing option)

² A hyphen will separate multiple options selected

REQUIRED ORDERING INFORMATION:

- Detailed model number
- Tag or nameplate detail (if required)
- Documentation & /testing packages (if required, refer to page Additional Resources)