

W I Z A R D A R C C O N T R O L L E R™

AUTO-REFILL CONTROLLER FOR DAY TANKS AND FEEDERS

- PREVENTS DAY TANKS & FEEDERS FROM RUNNING EMPTY
- HELPS ELIMINATE ACCIDENTAL SPILLS
- REDUCES LABOR COSTS
- TRACKS CHEMICAL USAGE AND FEED RATES
- SIX PROCESS ALARMS & ALARM LOG
- 4-20 MA OUTPUT FOR REMOTE MONITORING

The new Wizard ARC Controller, when combined with any of our platform scales, allows chemical day tanks and dry feeders to be automatically refilled from bulk supply. This fully automated system saves valuable operator time, helps prevent day tanks from running empty and reduces the risk of spilling chemical through accidental overfilling. A convenient Hand-Off-On (HOA) switch on the front of the controller can be set for full automatic operation or can be used to manually refill with a spring return to the OFF position. A large warning light indicates when the refill operation is occurring.

The Wizard ARC Controller also provides an array of monitoring functions such as chemical usage data, feed rate information and a number of alarms to manage your chemical feed process. Included in the standard alarm package are low level, high level, low feed rate, high feed rate, slow refill (bulk supply empty) and max daily use alarms.

By integrating monitoring and control, the Wizard ARC Controller is a truly unique device that will improve efficiency, safety and control for any chemical feed system.



**AUTOMATICALLY REFILLS
FROM BULK SUPPLY**



VOLUMETRIC
FEEDER SCALE™

FORCE FLOW

W I Z A R D A R C C O N T R O L L E R™

TYPICAL SPECIFICATION FOR AUTO REFILL SYSTEM

AUTO REFILL CONTROLLER

Auto Refill Controller shall provide both manual and automatic control for chemical transfer pump, valve or feeder to transfer chemical from bulk storage supply to a day tank or hopper. This control shall be accomplished by monitoring the weight (level) of the day tank/hopper on a scale platform connected to a local weight controller with an integrated Hand-Off-Auto Switch (HOA Switch).

Controller shall carry CE marking and shall be housed in a NEMA 4X, UL approved enclosure. Operator shall be able to monitor chemical by weight, volume or percent full. Controller shall display NET REMAINING, FEED RATE, DAILY USAGE, TOTAL AMOUNT USED and DAYS UNTIL EMPTY. A data log function shall store the DAILY USAGE for each of the previous 31 days. An integrated Hand-Off-Auto switch shall be provided with spring return from the Hand position. An adjacent green indicator lamp shall be illuminated when refilling the day tank/hopper. In order to preserve accurate chemical usage data in the automatic mode, usage accumulator shall automatically "Pause & Project" chemical usage during the refilling process.

OUTPUTS

Outputs shall include six (6) process alarms: Low and high level, low and high feed rate, slow refill (bulk supply empty), and max daily use. A 4-20 mA output of the net chemical weight shall also be provided. The Wizard Indicator/Controller shall provide 1.5 amp solid state relay outputs for operation of the chemical transfer device and 1.5 amp dry contacts for the chemical process alarms.

PLATFORM SCALE

Platform scale capacity shall be _____lb/kg and cable length shall be _____ft/m (20 ft standard) in length. Scale shall carry a Full Five (5) Year Factory Warranty and shall have an accuracy of better than 1/4 of 1%. Scale shall be Model No. _____ and controller shall be WIZARD ARC Controller Model 4000-ARC, as manufactured by FORCE FLOW, 1150-D Burnett Avenue, Concord, CA 94520 USA (www.forceflow.com), or equal

SPECIFICATIONS

Dimensions: 10 1/2" H x 8 1/2" W x 6 5/8" D
Power: 110, 220, 240 VAC, 50/60 Hz, 5 watts
Operating Temperature: 32F to 122F (0-50C)
Enclosure: NEMA 4X, UL Listed, CE Marked

Inputs: Up To Eight (8) Strain Gauge Load Cells
Control Relays: 1.5A Solid State
Alarm Relays: 1.5A Dry Contact
Analog Output: 4-20mA

HAND-OFF-AUTO (HOA) CONTROLS



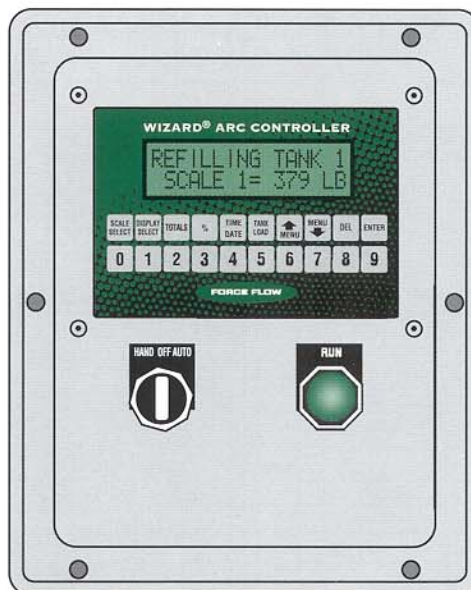
HOLD TO REFILL TANK,
AUTO SHUTOFF WHEN FULL,
SPRING RETURN TO OFF



TRANSFER PUMP OR VALVE
OPERATION DISABLED
SCALE AND ALARMS ACTIVE



AUTOMATICALLY REFILLS
TANK WHEN LOW



INVENTORY DATA

NET REMAINING
DAILY USAGE
TOTAL USAGE
FEED RATE
DAYS TIL EMPTY
PERCENT FULL

ALARMS

LOW LEVEL
HIGH LEVEL
LOW FEED RATE
SLOW REFILL
(SUPPLY EMPTY)
MAX DAILY USE

REMOTE MONITORING

4-20MA OUTPUT
(NET REMAINING)

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