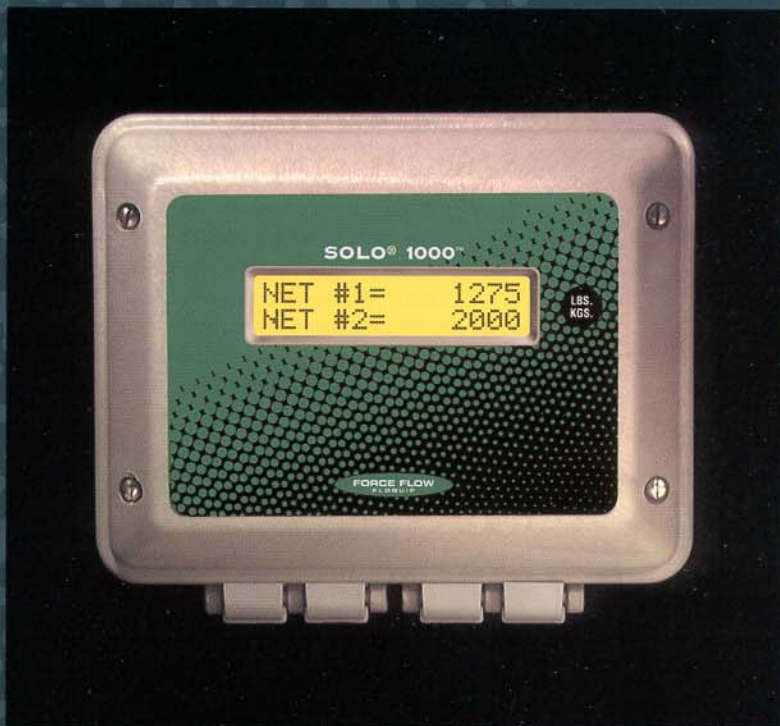


SOLO® 1000 DIGITAL INDICATOR

BULLETIN
513

FOR CHEMICAL USAGE AND LEVEL MONITORING

- SIMPLE OPERATION, ECONOMICAL PRICE
- COMPATIBLE WITH ALL OF OUR ELECTRONIC SCALES AND ULTRASONIC SENSORS
- INCLUDES 4-20MA OUTPUTS FOR REMOTE MONITORING
- SINGLE OR DUAL CHANNEL



THE SOLO® 1000 DIGITAL INDICATOR PROVIDES A SIMPLE AND ECONOMICAL WAY TO MONITOR CHEMICAL USAGE OR LEVEL IN YOUR CHEMICAL FEED SYSTEM. COMBINED WITH OUR SCALES OR ULTRASONIC SENSORS, THE SOLO CAN DISPLAY THE WEIGHT, VOLUME OR LEVEL OF THE REMAINING CHEMICAL. START-UP AND OPERATION REQUIRES ONLY THE TURNING OF A SINGLE TARE/ZERO ADJUST KNOB LOCATED WITHIN EASY REACH BUT OUT OF SITE TO PREVENT TAMPERING. THE BACKLIT LCD DISPLAY READS DOWN TO 0.1 LB/KG. INCREMENTS, MAKING THE SOLO IDEAL FOR APPLICATIONS THAT REQUIRE HIGH RESOLUTION.

HOUSED IN A NEMA 4X ENCLOSURE, THE SOLO OFFERS EXCELLENT PROTECTION AGAINST

HARSH ENVIRONMENTS, SUCH AS CHEMICAL ROOMS AND OUTDOOR INSTALLATIONS. MICROPROCESSOR-BASED ELECTRONICS PROVIDE ENHANCED RESOLUTION AND EACH INDICATOR COMES STANDARD WITH 4-20MA OUTPUTS FOR REMOTE MONITORING THROUGH A PLC OR SCADA SYSTEM. IN ADDITION, OPTIONAL LEVEL ALARM RELAYS CAN WARN OF HIGH OR LOW CHEMICAL CONDITIONS.

DESIGNED WITH VERSATILITY IN MIND, THE SOLO IS AVAILABLE AS A SINGLE OR DUAL CHANNEL INDICATOR THAT CAN BE USED WITH ANY OF OUR ELECTRONIC SCALES OR ULTRASONIC SENSORS. THE SOLO CAN ALSO BE USED TO EASILY CONVERT ANY EXISTING FORCE FLOW/FLOQUIP HYDRAULIC SYSTEM TO ELECTRONIC. NOW THERE IS AN ECONOMICAL DIGITAL INDICATOR WITH THE SAME QUALITY AND DEPENDABILITY THAT OUR CHEMICAL MONITORING SYSTEMS HAVE PROVIDED FOR OVER 30 YEARS.

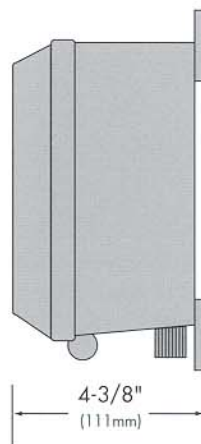


FORCE FLOW
FLOQUIP

OVER 30 YEARS OF EXPERIENCE

SOLO® 1000 DIGITAL INDICATORS

MODEL	SOLO® 1000-1	SOLO® 1000-2
NO. OF CHANNELS:	ONE	TWO
INPUT:	(1) ELECTRONIC LOAD CELL OR (1) ECHO-SCALE™ ULTRASONIC SENSOR	(2) ELECTRONIC LOAD CELLS OR (2) ECHO-SCALE™ ULTRASONIC SENSORS
OUTPUT:	(1) SOURCING 4-20MA OUTPUT	(2) SOURCING 4-20MA OUTPUTS
DISPLAY:	DUAL LINE, 16 CHARACTERS PER LINE, ALPHANUMERIC	DUAL LINE, 16 CHARACTERS PER LINE, ALPHANUMERIC
DISPLAY UNITS & RANGE:	LBS, KGS, GALLONS, LITERS UP TO 199,990	
INCREMENTS:	0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50	
ZERO/TARE ADJUSTMENT:	SEALED 10-TURN POTENTIOMETER	
TEMPERATURE:	32-122 DEGREES F (0-50 DEGREES C)	
POWER:	110/120 VAC OR 220/240 VAC, 50-60 HZ, 5 WATTS	
CONNECTORS:	4-20MA AND RELAYS - 1/2" NYLON CONDUIT CONNECTOR LOAD CELLS AND ECHO-SCALE - 1/2" NYLON CORD CONNECTOR	
ENCLOSURE:	NEMA 4X, UL LISTED, STRUCTURAL FOAM MOLDED	
PERFORMANCE:	OVERALL SYSTEM ACCURACY: 0.1-0.25% F.S., NON-LINEARITY: <0.03% F.S., HYSTERESIS: <0.02% F.S., NON-REPEATABILITY: <0.01% F.S., THERMAL STABILITY: <0.002%/DEG. F, ZERO AND SPAN	
OPTIONAL		
LEVEL ALARMS /RELAYS:	UP TO (2) PER INDICATOR, FORM C DRY CONTACT, 2A AT 30 VDC, 0.5A AT 120 VAC	



DIMENSIONS: INCHES (MILLIMETERS)



TYPICAL SPECIFICATION FOR CHEMICAL MONITORING SCALE OR ULTRASONIC SENSOR

SCALES

A QUANTITY OF _____ SCALE(S) SHALL BE PROVIDED AND SHALL BE OF THE DIGITAL READOUT/ELECTRONIC LOAD CELL TYPE. SCALE(S) SHALL BE OF THE SINGLE LOAD CELL DESIGN. FLEXIBLE CABLE SHALL CONNECT LOAD CELL TO INDICATOR TO ALLOW EASY REMOTE INSTALLATION OF THE READOUT. CABLE LENGTH SHALL BE _____ FEET (METERS).

ULTRASONIC SENSORS

A QUANTITY OF _____ ULTRASONIC SENSOR(S) SHALL BE PROVIDED AND SHALL BE OF THE 4-20MA OUTPUT DESIGN. FLEXIBLE CABLE SHALL CONNECT SENSOR(S) TO INDICATOR TO ALLOW FOR EASY REMOTE INSTALLATION OF THE READOUT. CABLE LENGTH SHALL BE _____ FEET (METERS).

INDICATOR SHALL CARRY CE MARKING AND SHALL BE HOUSED IN A NEMA 4X, UL APPROVED ENCLOSURE. INDICATOR SHALL HAVE A BACKLIT LCD DISPLAY AND SHALL BE EQUIPPED WITH A SEALED 10-TURN KNOB FOR TARE ADJUSTMENT. INDICATOR SHALL OUTPUT NET WEIGHT VIA A 4-20MA SIGNAL(S) FOR REMOTE MONITORING. INDICATOR SHALL MONITOR _____ (1 OR 2) CHANNEL(S).

SCALE/ULTRASONIC SENSOR SHALL BE MODEL _____ AND DIGITAL DISPLAY SHALL BE SOLO® 1000 INDICATOR MANUFACTURED BY FORCE FLOW/FLOQUIP, 1150-D BURNETT AVE., CONCORD, CA 94520 OR EQUAL.

PLEASE SEE INDIVIDUAL SCALE BULLETINS FOR MODEL NUMBERS AND ADDITIONAL INFORMATION. ALL SPECIFICATIONS ARE AVAILABLE IN ELECTRONIC FORMAT.

