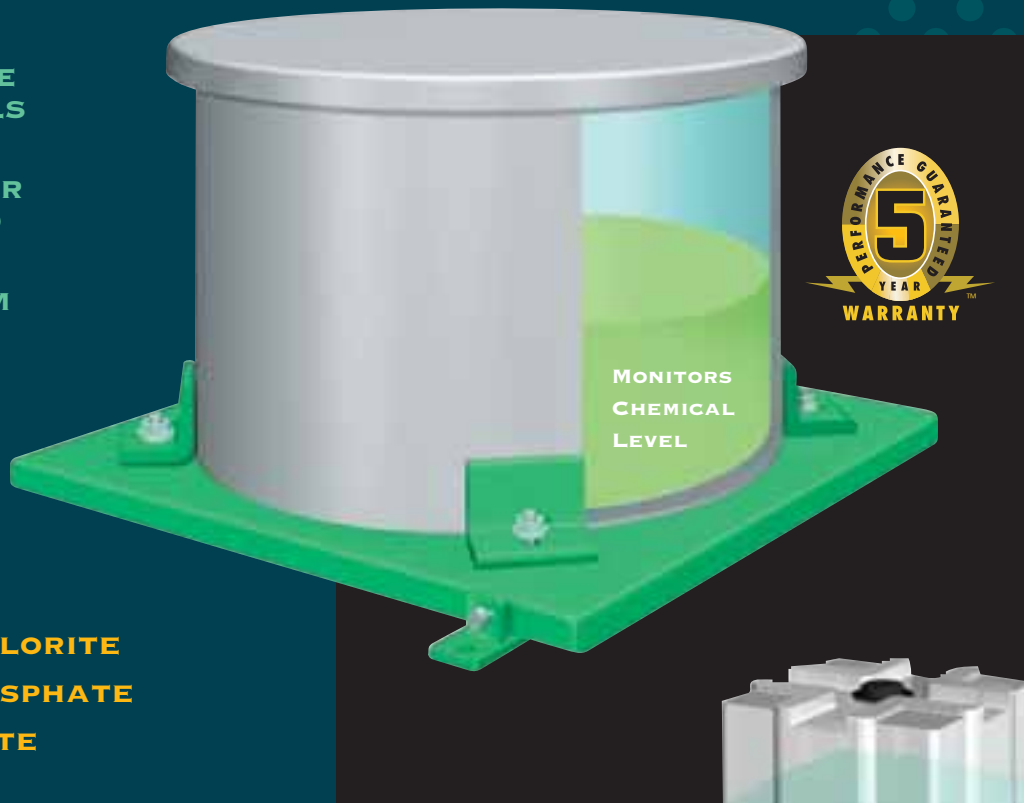


**FOR CHEMICAL DAY TANKS AND IBC TOTES**

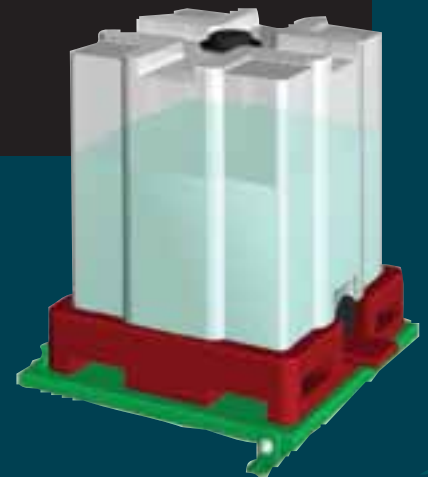
- + SAFELY TRACK CHEMICAL USAGE AND TANK LEVELS
- + WARN OF DANGEROUS OVER AND UNDERFEED CONDITIONS
- + PREVENT SYSTEM FROM RUNNING EMPTY
- + 4-20mA REMOTE MONITORING REDUCES OPERATOR EXPOSURE TO CHEMICALS



- SODIUM HYPOCHLORITE
- POLY-ORTHOPHOSPHATE
- SODIUM BISULFITE
- FLUORIDE
- POLYMER
- CAUSTIC
- ALUM



*OUR ADVANCED WIZARD 4000® DIGITAL INDICATOR SIMULTANEOUSLY MONITORS REMAINING CHEMICALS, FEED RATES, AND USAGES ON UP TO 4 SEPARATE CHEM-SCALES.*



STRICT FEDERAL AND STATE REPORTING REQUIREMENTS HAVE CREATED A NEED FOR WATER AND WASTEWATER PLANT OPERATORS TO EASILY AND ACCURATELY TRACK CHEMICAL FEED RATES AND USAGES. THE CHEM-SCALE GIVES YOU THIS INFORMATION ALONG WITH THE ASSURANCE THAT YOUR CHEMICAL SUPPLY WILL NOT UNEXPECTEDLY RUN OUT.

THE HEAVY DUTY STEEL PLATFORM IS PROTECTED WITH OUR ADVANCED 80 MIL THICK TUF-COAT™ ENVIRONMENTAL ARMOR. TUF-COAT IS HIGHLY RESISTANT TO CHEMICALS, ABRASION, IMPACT AND ULTRAVIOLET LIGHT DEGRADATION MAKING THE CHEM-SCALE IDEAL FOR EVEN THE

HARSHEST ENVIRONMENTS. OPTIONS INCLUDE 316 STAINLESS STEEL AND MAXSENSE™ HIGH ACCURACY MODELS FOR SPECIAL APPLICATIONS SUCH AS MONITORING BRINE TANKS.

THE CHEM-SCALE UTILIZES WEIGHING TECHNOLOGY TO CREATE A HIGHLY RELIABLE, NON-CONTACTING CHEMICAL MONITORING SYSTEM THAT AVOIDS PROBLEMS OTHER SENSOR TECHNOLOGIES FACE CAUSED BY IRREGULAR TANK SHAPES, CORROSIVE CHEMICAL FUMES, FLUCTUATING TEMPERATURES AND CHANGES IN SPECIFIC GRAVITY.



**ELECTRONIC CHEM-SCALE™**

**MODELS AND ORDERING INFORMATION**

SCALE INCLUDES PLATFORM WITH ADJUSTABLE TANK RESTRAINT CLIPS OR BACKSTOP AND ELECTRONIC LOAD CELL WITH 20 FT. CABLE. REQUEST LONGER CABLE LENGTH (UP TO 200') FOR REMOTE MOUNTING OF INDICATOR. ELECTRONIC WEIGHT INDICATOR REQUIRED AND ORDERED SEPARATELY. SEE WIZARD 4000 (BULLETIN 400) OR SOLO 1000 (BULLETIN 513).

PLATFORM SIZE	X	Y	Z	H	CAPACITIES*	FULL SCALE ACCURACY	MIN. DISPLAY INCREMENTS
30" x 30"	30" (760)	30" (760)	34" (865)	3.25" (81)	1,2,3,4K	1/4 OF 1%	0.1 LB
40" x 40"	40" (1016)	40" (1016)	44" (1118)	3.25" (81)	2,3,4,5,6K	1/4 OF 1%	0.1 LB
50" x 50"	50" (1270)	50" (1270)	54" (1372)	3.25" (81)	3,4,5,6,8K	1/4 OF 1%	0.5 LB
60" x 60"	60" (1524)	60" (1524)	64" (1626)	3.25" (81)	4,5,6,8,10K	1/4 OF 1%	0.5 LB
72" x 72"	72" (1829)	72" (1829)	76" (1930)	3.5" (89)	10, 12, 15, 20, 30K	1/4 OF 1%	1.0 LB

**DIMENSIONS: INCHES (MILLIMETERS) \*OTHER CAPACITIES AVAILABLE UPON REQUEST**

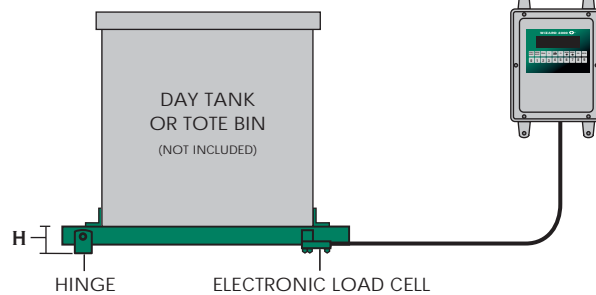
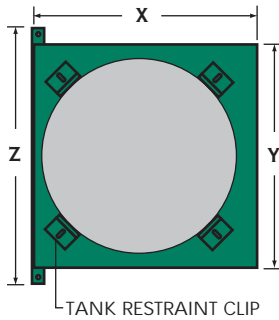
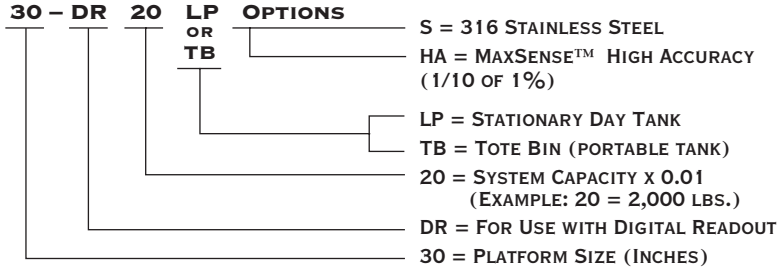
**SPECIFYING GUIDELINES**

A. FOR MAXIMUM ACCURACY SIZE SCALE CAPACITY TO MATCH THE GROSS WEIGHT (CHEMICAL & TANK TARE WEIGHT)

B. TANK DIAMETER SHOULD NOT EXCEED PLATFORM SIZE.

C. SUPPLY CONNECTIONS MUST BE FLEXIBLE AND PREFERABLY CONNECTED TO TANK OVER PIVOTED SIDE OF PLATFORM.

**MODEL NUMBER DEFINITION**



OUR WIZARD 4000 WEIGHT INDICATOR SIMULTANEOUSLY MONITORS REMAINING CHEMICALS, FEED RATES AND USAGES ON UP TO 4 SEPARATE CHEM-SCALES.

**TYPICAL SPECIFICATION FOR ELECTRONIC CHEMICAL FEED SCALES**

A QUANTITY OF \_\_\_\_ CHEMICAL SCALE(S) OF \_\_\_\_\_ LBS CAPACITY SHALL BE PROVIDED AND SHALL BE OF THE DIGITAL READOUT/ELECTRONIC LOAD CELL TYPE. SCALE PLATFORM SHALL BE SIZED TO ACCEPT A \_\_\_\_\_ INCH DIAMETER TANK. FOUR (4) ADJUSTABLE HOLD DOWN LUGS SHALL SECURE THE VESSEL TO THE PLATFORM. PLATFORM SCALE COATING SHALL BE A MINIMUM DRY THICKNESS OF 80 MILS AND BE RESISTANT TO MOISTURE, CHEMICALS, ABRASION, IMPACT AND UV LIGHT. FLEXIBLE CABLE SHALL CONNECT LOAD CELL TO INDICATOR TO ALLOW EASY REMOTE INSTALLATION OF THE READOUT. CABLE LENGTH SHALL BE \_\_\_\_\_ FEET (20' STANDARD).

INDICATOR SHALL CARRY CE MARKING AND SHALL BE HOUSED IN A NEMA 4X, UL APPROVED ENCLOSURE. INDICATOR SHALL HAVE A 20 KEY DIGITAL KEYPAD WITH ABILITY TO DISPLAY TWO SCALES SIMULTANEOUSLY ON A SINGLE BACKLIT ALPHANUMERIC DISPLAY. IF MORE THAN TWO SCALES ARE MONITORED, DISPLAY SHALL AUTOMATICALLY SCAN ALL SCALES IN THE SYSTEM. INDICATOR SHALL HAVE AN ADJUSTABLE 4-20MA SIGNAL THAT OUTPUTS NET WEIGHT AND CHEMICAL FEED RATE FOR EACH SCALE. INDICATOR SHALL DISPLAY AN ALARM IN ANY OF THE FOLLOWING CONDITIONS: LOW LEVEL, HIGH LEVEL, LOW FEED RATE, HIGH FEED RATE, MAX DAILY USE, MIN DAILY USE, SUPPLY EXHAUSTED AND LOAD CELL FAILURE. AN ALARM LOG SHALL STORE THE MOST RECENT 10 ALARM CONDITIONS WITH TIME AND DATE OF OCCURRENCE. A QUANTITY OF \_\_\_\_ (UP TO 12 PER INDICATOR) \_\_\_\_\_ (SOLID STATE OR DRY CONTACT) RELAYS SHALL BE PROVIDED FOR REMOTE ALARM INDICATION OR TRANSFER PUMP CONTROL. INDICATOR SHALL BE ENABLED WITH MODBUS PROTOCOL FOR REMOTE RS 485 SERIAL COMMUNICATIONS.

KEYPAD AND MENU ITEMS SHALL HAVE INDEPENDENT PASSWORD PROTECTION TO PREVENT UNAUTHORIZED OPERATION. BOTH A NUMERICAL AND A BAR GRAPH DISPLAY SHALL GIVE OPERATOR THE ABILITY TO MONITOR CHEMICAL BY WEIGHT, VOLUME OR PERCENT FULL. EACH CHANNEL SHALL HAVE A USER SELECTABLE, TWO DIGIT SCALE ID NUMBER AND SHALL DISPLAY NET REMAINING, PURE CHEMICAL REMAINING, FEED RATE, DAILY USAGE, TOTAL AMOUNT USED, DAYS UNTIL EMPTY, GROSS WEIGHT AND TARE WEIGHT. A TANK LOAD KEY SHALL PAUSE & PROJECT USAGE ACCUMULATION DURING CHEMICAL RE-SUPPLY TO MAINTAIN ACCURATE USAGE DATA OVER MULTIPLE TANK LOADS. A DATA LOG SHALL STORE THE DAILY USAGE FOR EACH OF THE PREVIOUS 31 DAYS. INDICATOR RE-CALIBRATION IN THE FIELD SHALL BE ACCOMPLISHED THROUGH THE KEYPAD AND SHALL NOT REQUIRE THE USE OF DEAD WEIGHTS.

SCALE SHALL CARRY A FULL FIVE (5) YEAR FACTORY WARRANTY. "LIMITED" WARRANTIES SHALL BE CONSIDERED UNACCEPTABLE.

FULL SCALE ACCURACY SHALL BE BETTER THAN 1/4 OF 1%. SCALE SHALL BE CHEM-SCALE® MODEL \_\_\_\_\_ WITH TUF-COAT™ ENVIRONMENTAL ARMOR AND WIZARD 4000® MODEL 4000-\_\_ (1,2,3,4), AS MANUFACTURED BY FORCE FLOW,

**SOLO 1000™ OPTION**

• THE CHEM-SCALE CAN ALSO BE MONITORED WITH OUR SINGLE OR DUAL CHANNEL SOLO 1000 DIGITAL INDICATOR. SEE BULLETIN 513 FOR MORE INFORMATION.



• FOR MORE INFORMATION ON THE WIZARD 4000, SEE BULLETIN 400.  
• FOR TYPICAL SPECS FOR TOTE BIN SCALES AND OTHER DOWNLOADABLE INFORMATION, PLEASE SEE OUR EXTENSIVE WEBSITE AT WWW.FORCEFLOW.COM

