

# NET WEIGHER

FOR FLOW MONITORING AND CONTROL



## Features:

- ◆ Supplied complete with upper garner and lower surge bin.
- ◆ Detects, rather than causes chokes –in flow monitor mode, if the power fails, the gates move to the open position, preventing damaging upstream chokes.
- ◆ Accuracy of better than 0.1% regardless of changes in material characteristics.
- ◆ Can be directly controlled by B&R Technology's MillView Yield Management Instrument, a PLC, or your existing PC based control system with any of B&R Technologies network interface solutions.
- ◆ Optional built-in air pressure and vacuum isolation lower gate (not shown).
- ◆ Rugged maintenance free butterfly gate mechanics provide literally millions of cycles with only routine maintenance.
- ◆ Sanitary flow-through design.
- ◆ Ready for use "out-of-the-box", but with flexibility that allows the controller to be moved from the scale to a remote location for more convenient operation. The calibration processor is a separately mounted on the scale for ease of maintenance.
- ◆ Available in painted mild steel (std), contact 304SS, or full 304SS



1055 INDUSTRY STREET  
OAKVILLE, ONTARIO L6J 2X3  
(289) 812-0744  
WWW.BRTECHNOLOGIES.CA



FLOWmatic 47 Series

# FLOWAMATIC SERIES

## Operation

The scale's weighing cycle begins by opening the upper gate. It then samples the increase in weight 10 times-per-second with the upper gate trickle feeding in bagging mode and during the final weightment of batching mode. Once the configured dump size, less the in-flight amount, is reached, the upper gate closes. Then the precise actual gross weight is recorded and the lower gate opens to empty the material. The precise empty weight is recorded to determine the net weight transferred, after which the cycle is repeated.

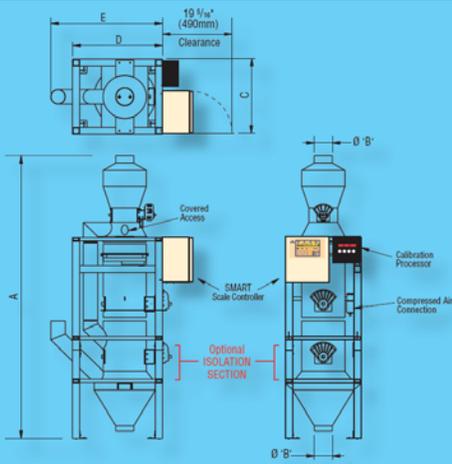
## General Specifications (all models) :

Accuracy  
 Accuracy percentage 0.1%  
 Indicator Resolution 10,000 displayed grads, 100,000 internal  
 Electrical  
 Voltage ..... 110/220VAC Power Required... 115VA  
 Frequency ..... 50/60Hz  
 Inputs/Outputs  
 Voltage ..... 24VDC standard, 120VAC optional  
 Available Inputs ..... downstream hold, remote stop/start  
 Available Outputs .. alarm, batch target reached, pre-target, 4-20mA, dump pulse, and centronics printer  
 Compressed Air (clean, dry)  
 Pressure ..... 80psi (5.5Bar)  
 Consumption ..... 0.2 to 0.9cfm (0.4 to 1.6Nm3/h)  
 Aspiration  
 Pressure/Vacuum .. 0 inch water Null Point Connection (0kg/m2)  
 Consumption ..... 300cfm (515Nm3/h)  
 Communication  
 PLC Link ..... Allen-Bradley I/O Rack "Blue Hose" interface.  
 Serial ..... ARCNET or RS232 interfaces available with complete read/write protocols  
 DDE ..... complete DDE server available for scale data and control via WindowsNT applications

## SCDG Controller

SMART Controller features include :

- ♦ Easy-to-read vacuum fluorescent display with written, not coded messages.
- ♦ Simultaneous displays for throughput rate, weight, production target, gate positions, and scale status.
- ♦ Custom name plate labeling for easy stream identification.
- ♦ Each unit is individually housed in a NEMA-4 panel box, mounted directly on the scale itself and may be moved to a remote location for convenience.
- ♦ Multi-language operator display. Change languages on-the-fly.
- ♦ Supplied with both 4-20mA analog, and programmable digital pulse outputs. Optional fieldbus networks available.
- ♦ Outputs for Light, Horn, or PLC. Control signals for target reached and remote stop.



Model	47S**	47SLS	47SL	47SXL
Maximum Capacity	ft <sup>3</sup> /hr 300	450	900	2100
with free flowing material	m <sup>3</sup> /hr 8½	13	25½	59½
Weigh Hopper Cap	ft <sup>3</sup> 1.0	1.5	3.0	7.0
	l 28	42	85	198
Overall Height 'A'	in 67½	81	97½	136½
without air isolation	mm 1715	2057	2470	3466
Overall Height 'A'	in 79½	93½	108½	145½
with air isolation	mm 2022	2375	2750	3705
Inlet/Outlet	in 6	8	8	8
Diameter 'D'	mm 152	203	203	203
Width 'C'	in 25	27½	27½	30
	mm 635	699	699	762
Depth 'D' without	in 25	31¼	31¼	36¼
air isolation	mm 635	791	791	930
Depth 'E' with	in 31	37¼	37¼	43¼
air isolation—ISO	mm 787	956	956	1095

\*\* Shown on Front With Air Isolation Option  
 Specifications Subject to Change