GS-SYS GOLD STANDARD® CALIBRATION SYSTEM (US & METRIC)

FEATURES AND BENEFITS

- Capacities from 25K, 55K, & 100K lbf (110, 250, & 450 kN)
- SCB1 signal conditioning board with very low nonlinearity specification (<0.003% FS)
- Less than 0.04% RDG uncertainty
- Fully automated system will reduce calibration time by 50% to 90%
- Automated tensions and compression calibration runs can be completed in less than 5 minutes
- 4-post design provides superior stability throughout the calibration
- Innovative fixturing allows for tension and compression calibration without changing setup
- 12 inches of clearance between posts allows for easy load cell installation and removal
- Accurate and reliable load control achieved by proprietary load feedback design
- Testing and reporting per ASTM E74, ISO 376, and EN100002-3 standards
- Automatically produces standard reports, graphs, and performance parameter calculations
- Ability to customize reports and graphs
- Automatically archives data

The Interface Gold Standard® Calibration System using the Interface Gold or Platinum Standard® Load Cells ensures a metrology system of the highest accuracy and lowest uncertainty available.

The Gold Standard® Calibration System includes:

- 25K, 55K, or 100K lbf (110, 250, or 450 kN) load frame
- Integrated control and measurement system
- Integrated computer system with Interface Gold Standard® Calibration Software
- One set of thread adapters for initial set-up and use

Additional options include:

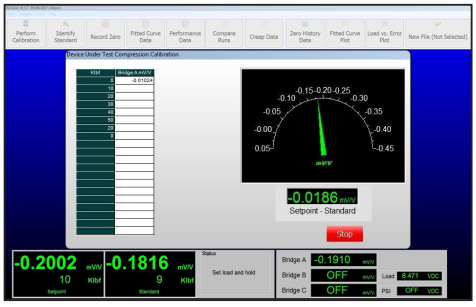
- Interface Gold or Platinum Standard® reference load cells
- Additional input channels for multiple bridge load cells or transducers with high level outputs
- HRBSC high performance resolution signal conditioning board with N/C <0.001% FS
- Special threads and calibration adapters
- CX Series Precision mV/V transfer standard for system calibration
- On-site training
- GS E74 software for high level inputs
- GS E74 software for system calibrations (Transducer and display as a system)

STANDARD CONFIGURATION

Model GS-SYS (shown)

SOFTWARE

- Load points can be preset as required per your test specifications
- The ICS-202 Gold Standard® Calibration Software ICS-202 Gold Standard® Calibration Software will provide exact load output at specific load points
- Calibration results from other runs can be compared, measured, and displayed with current run results



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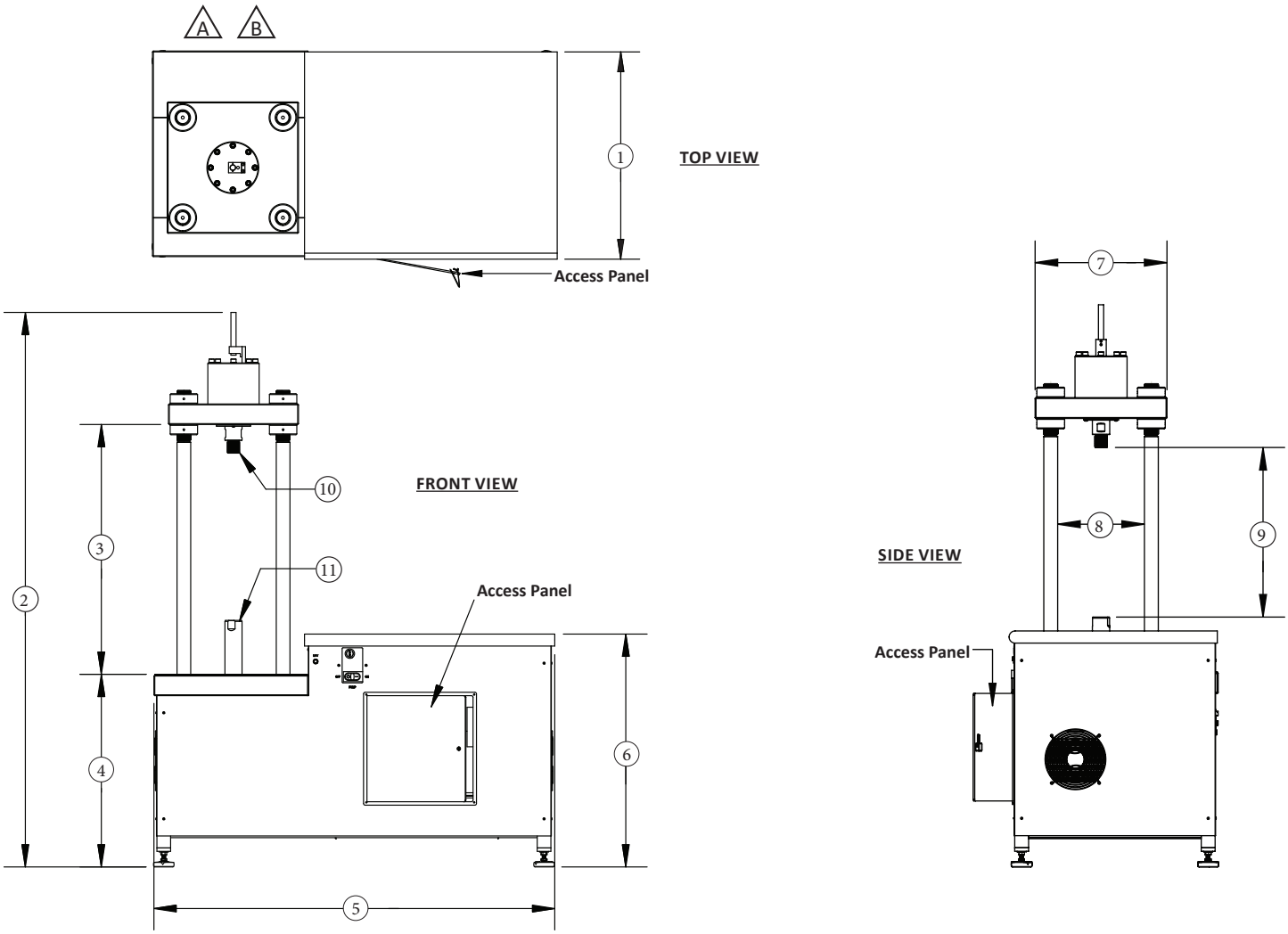

DIMENSIONS

See Drawing	CAPICITY	
	lbf	kN
	25K, 55K, 100K	110, 250, 450
	in	mm
1	30.0	762
2	81.0	2057
3	36.5	927
4	28.2	716
5	58.6	1488
6	34.0	864
7	19.0	483
8	12.5	318
9	24.4 MIN / 30.4 MAX	620 MIN / 772 MAX
10	1.75-12 UN 2A x 1.80	1.75-12 UN 2A x 45.7
11	1.75-12 UN 2B x 2.0	1.75-12 UN 2B x 51

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SPECIFICATIONS

LOAD FRAME		
Capacity	lbf	25K, 55K, 100K
	kN	110, 250, 450
Weight	lbs	2200
	kg	997.9
Type		Four Column, Dual Action Hydraulic
Load Cell Test Type		Compression or Tension
Horizontal Clearance	in	12.5
	mm	317.5
Vertical Clearance	in	24.4 to 30.4
	mm	619.8 to 772.2
Piston Stroke	in	6.0
	mm	152.4
Top Swivel Thread		1.75-12 Male
Bottom Actuator Thread		1.75-12 Female
Position Sensor		LVDT
Zero Control		Automatic Return
Slack Adaptor Range	in	± 0.25
	mm	± 6.35
Thread Adaptors		Base Set Included
HYDRAULIC SYSTEM		
Oil Capacity	US gal	10
	L	37.85
Oil Type		Mobile DTE25 or Equivalent
Oil Over-temperature		Automatic Cut-Off
Low Oil Level		Automatic Cut-Off Indicator

CONTROLS	
Speed Control	Automatic
Speed Selection	Configurable
Controller	PID
USER INTERFACE	
Control Interface	Industrial Computer
Software	Interface Gold Standard®
Reports	User Configurable
Test Reports Available	ASTM E74, ISO 376 or Custom
Shunt Calibration	Automatic or Manual
Curve Fit	Least Square Method
Calibration History	Compare Data with Past Results
CALIBRATION	
Uncertainty - %RDG	Less than 0.04 Uncertainty
Ranges	Dependent on Gold Standard® Load Cell
Overload Protection	User Configurable
Automatic Load Points	User Configurable
Load Measurement Range - %	1 to 100 of Load Frame Capacity
A/D Calibration Standard	Included
REQUIREMENTS	
Power Requirements - VAC Hz A CCT	208/240, Single Phase, 50/60, 20

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