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Customer Date				
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10	Display Menu			
	11 Disp Format			
	12 Disp Countby			
	13 Disp Units			
	14 Bargraph Span			
	15 Ext Inpt Mode			
20	Cal Menu			
	21 Auto Cal			
	Lo Span Cal			
	Hi Span Cal			
	Disp Val Correct			
	22 Manual Cal			
	Scale Factor Wgt			
	Scale Factor Cts			
	Zero Counts			
	23 Linearization			
	Linearize Set			
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24 Zero Tolerance

41 IOut Range 42 IOut: 4/0mA 43 IOut: 20mA 43 IOut: 20mA 44 IOut Track 45 IOut Failsafe 46 IOut Enable 48 Current Adjst 0mA Point 20mA Point 20mA Point 20mA Point 50 Com Menu 51 Serial Addres 52 Serial Baud 53 PLC Menu 60 Sensor Menu 61 Sensor Adj Ex 62 Resolution 63 Sensor Gain 70 Filter Menu 71 Averaging 72 DSP Enable 73 DSP Step 74 DSP Qualify 75 DSP Factor 80 Tracking Menu 81 Rate Threshld 82 Sample Intrvl 83 Zero Trak Win 84 Drift Limit 85 Mat Trak Enab 90 Service Menu 91 User Access 92 Keyboard Lock	40	I-Output Menu
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84 Drift Limit 85 Mat Trak Enab 90 Service Menu 91 User Access 92 Keyboard Lock bint Menu		83 Zero Trak Win
85 Mat Trak Enab 90 Service Menu 91 User Access 92 Keyboard Lock pint Menu		84 Drift Limit
90 Service Menu 91 User Access 92 Keyboard Lock pint Menu		85 Mat Trak Enab
91 User Access 92 Keyboard Lock pint Menu	90	Service Menu
92 Keyboard Lock		91 User Access
pint Menu		92 Keyboard Lock
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KM

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	Value	Deadband	Hi/Lo	Track	Failsafe	Preact
31 Relay1						
32 Relay2						
33 DigOut1						
34 DigOut2						
35 DigOut3						
36 DigOut4						
37 DigOut5						
38 DigOut6						

30 Setp

This Quick Reference Manual reflects SVS 2000 software revision 'C. Page 8

30 Setpoint Menu (see table below)

S KM SVS 2000[™] **Quick Reference** Manual

Reference

KM 97-1129-01, SVS 2000 Installation and Operation Manual

Mounting and Wiring

Mounting

CAUTION

- · Do not mount in direct sunlight. Use flex conduit between rigid conduit and SVS 2000 enclosure.
- · Consider clearance needs for wiring and maintenance.
- Consider temperature at mounting location. See Manual Appendix A for specifications.
- 1. For Stainless Steel version, first remove electronics assembly.
- 2. Hold SVS 2000 in desired location and mark mounting hole positions.
- 3. Drill mounting holes.







Detail -- KM Half-Bridge Sensors



- 4. Mount SVS 2000 securely using customer-supplied hardware.
- 5. For Stainless Steel version, make entry holes in bottom of enclosure and re-install electronics assembly.

Wiring

Route AC power and setpoint cables separate from low-level signal cables.

- 1. Connect sensor wiring.
- 2. Connect relay output, digital output, analog output, serial output, and remote input wiring, as applicable.
- 3. Connect AC power.
- 4. Apply power and check display. 5. Seal openings in enclosure, using Sikaflex 1A or Dow Corning RTV 739 or 738 sealant.
- 6. Tighten set screws that secure wires to the terminal boards to 8 lbf/in. of torque.

WARNING

See detail below for KM half-bridge sensors.

See Manual Appendix E for other sensor types

- Wiring must comply with national/ local wiring requirements.
- · Ground conductor must connect to Protective Earth (PE) terminal.
- · Power wiring must include switch/ circuit breaker for disconnecting power. It must be close to

SVS 2000, in easy reach of operator. and marked as disconnect for unit.



Setup with Quick Config

- See Figures 1 and 2. Determine whether application is direct support or bolt-on. Gather data to fill out table in applicable figure.
- See Figure 3. Perform Quick Config. SVS 2000 leads you through menu tree. When Quick Config is complete, SVS 2000 automatically switches to Run Mode.



Figure 1. Direct Support (load cell) Application



KM Bolt-On Sensor?

Units? Ibs or kg Sensor type?¹ L-Cells or Microcells If Microcells:^{1, 2}

Installed on horizontal beams? Installed on vertical legs? Rosette Arrays? Vertical Microcells? Vessel working capacity?¹

____Ibs or kg

Vessel working stress?¹ _____psi or kg/mm² Current material weight?

____lbs or kg

Notes:

¹ See Application Data Form. Copy of form was returned with order. If you cannot locate it, contact KM.

² Internal calculations for Microcells for 3-inch Microcells on carbon steel. Modify calibration after *Quick Config* if installing on stainless steel or aluminum or using 2-inch Microcells. See Manual Appendix C, Calculation of Manual Calibration Parameters, for details.

> Figure 2. Bolt-On (Microcell or L-Cell) Application

Auto (Live Load) Calibration

Quick Config configured the SVS 2000 based on system and sensor characteristics. When scheduling permits you to move material (at least 25% of vessel's capacity), perform Auto calibration to obtain highest accuracy.

Calibration by Adding Known Quantity of Material (starting on Run Mode display)

Action	Typical Display at End of Step	
2 1 ENTER	21 AUTO CAL	Note: For Calibration by
ENTER	LO SPAN CAL	Subtracting Known Quantity of Material see Manual Chapter 6
ENTER	> lbs	Cal Menu.
(input current material weight)	LO SPAN CAL	
	HI SPAN CAL	
(add material to vessel)	(unchanged)	
ENTER	> lbs	
(input current material weight)	HI SPAN CAL	
GROSS or NET	(Run Mode display)	

Default Unit

Method #1 (starting on Run Mode display)

Action	Typical Display at End of Step
9 4 ENTER	94 DEFAULT SYSTM
ENTER	DEFAULT NVRAM?
ENTER	ARE YOU SURE?
ENTER	(beginning of Quick Config

Method #2

1. Turn off AC power.

2. Press and hold Enter Key while turning on AC power.

Remote Tare or Totalize

Provide a 1 second contact closure on tare input terminals — see Manual Appendix E for wiring details. Configuration of remote input as tare or totalize is done in function 15, *Ext Inpt Mode*.

Error Messages

See Manual Appendix F, Error Messages.

Keyboard Functions

Func Key (Run Mode only) Go to function 10 in menu tree.

Arrow Keys

- Run Mode: Scroll through Run Mode displays.
- · Function Mode:
- -Scroll through menu selections at given level.

—Scroll to parameter value.

Net Key

Go to net weight display in Run Mode.

Gross Key

Go to gross weight display in Run Mode.

Tare Key (Run Mode only) Press for 1 second to tare vessel. SVS switches to net weight display.

Zero Key (Run Mode only)

- Gross display: Change calibration, setting gross weight to zero.
- Net display: Reset number of tares to zero.
- Total display: Reset total weight and number of totals to zero.
- (minus) Key (Run Mode only)

Press for 1 second to totalize vessel (add net weight to total weight). SVS switches to total weight display.

Enter Key

- Run Mode:
 - -Gross display: Toggle between numerical and bar graph format.
- Net display: Briefly display number of tares since tare reset.
- —Total display: Briefly display number of totals since totalizer reset.
- Function Mode:
 - -Access submenus.
 - —Save parameter value in memory.

Numeric Keys

- Run Mode: Enter function number for desired menu (press Enter Key after number is entered).
- Function Mode: Input parameter value.

Hot Keys (Run Mode operations)

Switch from Run to Function Mode Press Func Key.

Switch from Run Mode to particular Function Mode Menu Press 2-digit function number and Enter Key.

Switch from Function to Run Mode Press Gross or Net Key.

Scroll through Run Mode Displays (gross, net, total, and relay status)

Press Up or Down Arrow Key. Switch to Gross Weight

Press Gross Key.

Switch to Net Weight Press Net Key.

Toggle between Gross Weight Numerical and Bar Graph Displays

Press Enter Key while on gross display.

Zero Gross Weight

Press Zero Key while on gross display. When SVS requests verification, press Enter Key. Press any other key to abort.

Tare (local)

Press Tare Key for 1 second, until SVS flashes *Tare Implemented* and switches to net display.

Display Number of Tares

Press Enter Key while on net display. SVS flashes number of tares.

Zero Number of Tares

Press Zero Key while on net display.

Totalize (local)

Press '--' Key for 1 second, until SVS flashes *Net Totalized* and switches to total display.

Display Number of Totals

Press Enter Key while on total display. SVS flashes number of totals.

Zero Total Weight and # of Totals

Press Zero Key while on total display. When SVS requests verification, press Enter Key. Press any other key to abort.

Display Serial Address

Press '-' Key and then '1' Key.

Display Software Revision

Press '-' Key and then '2' Key.

Display ID Label

Press '-' Key and then '3' Key. **Display Net Reference (±NR)** Press '-' Key and then '4' Key.



Figure 3. Quick Config Menu Tree and Keyboard Use

Run and Function Modes

- Run Mode Monitoring Display gross weight, net weight, total weight, and relay status.
 Function Mode — Menu Tree
 - Access menu tree to allow user to view and modify setup parameters.

When Quick Config is complete, SVS 2000 automatically switches to Run Mode.



Function Mode (see next pages for complete menu tree and descriptions)



Note: Use of Arrow Keys and Enter Key to navigate in submenus is similar.

Function Mode Menu Tree

10 Display Menu

- 11 Disp Format (xxxxxx, xxxxx.x, XXXX.XX, XXX.XXX, XX.XXXX, xxxxxxo, xxxxxxoo)
- 12 Disp Countby (1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 5000, 10000)
- 13 Disp Units (lbs, kg, CWT, tns, gal, Ltr, bbl, bu, %, ft, m, mV, none)
- 14 Bargraph Span
- Ext Inpt Mode (Tare, Total) 15

20 Cal Menu

- 21 Auto Cal Lo Span Cal Hi Span Cal
- **Disp Val Correct** 22 Manual Cal Scale Factor Wgt
 - Scale Factor Cts Zero Counts
- 23 Linearization Linearize Set Linearize Enable (Off, On)
- 24 Zero Tolrance
- 29 Cal Display (Cnt/mV, ScfWgt, ScfCnt, ZeroCnt, DispVCW, HiSpanW, LoSpanW, HiSpanC, LoSpanC, 0mV Cnt)

30 Setpoint Menu

- 31 Slct Relay #1 Relav1 Value Relav1 Deadband Relay1 Hi/Lo (Hi, Lo) Relay1 Track (Grs, Net, Tot, Flt) Relay1 Fail-Safe (On, Off, NC) Relav1 Preact 32 Slct Relay #2 (similar to relay 1) 33 Slct Digtl #1 (similar to relay 1) 34 Slct Digtl #2 (similar to relay 1) 35 Slct Digtl #3 (similar to relay 1)
- 36 Slct Digtl #4 (similar to relay 1) 37
- Slct Digtl #5 (similar to relay 1) 38 Slct Digtl #6 (similar to relay 1)
- 39 Diatl Status

Setpoint Test

Select Relay #1 (Off, On) Select Relay #2 (Off, On) Select Digtl #1 (Off, On) Select Digtl #2 (Off, On) Select Digtl #3 (Off, On) Select Digtl #4 (Off, On)

Select Digtl #5 (Off, On)

Select Digtl #6 (Off, On)

40 I-Output Menu

- 41 IOut Range (4-20mA, 0-20mA)
- 42 IOut: 4/0mA
- 43 IOut: 20mA
- 44 IOut Track (Grs, Net)
- 45 IOut Failsafe (Hi, Lo, NC) 46
- IOut Enable (On, Off)
- 48 Current Adjst (0mA Point, 4mA Point, 20mA Point)
- Test Current (4/0mA, 6/2mA, 8/4mA, 49 10/6mA, 12/8mA, 14/10mA, 16/12mA, 18/14mA, 20/16mA, 18mA, 20mA)

50 Com Menu

- 51 Serial Addres
 - 52 Serial Baud (1200, 2400, 4800, 9600, 19200)
 - 53 PLC Menu A-B RIO Menu DeviceNet Menu (release in 1999) Profibus Menu (release in 1999) Modbus Menu (release in 1999)

60 Sensor Menu

- 61 Sensor Adj Ex (13V, 12V, 11V, 10V, 9V, 8V, 7V, 6V, 5V) Resolution (16bt, 17bt, 18bt, 19bt, 62
- 20bt, 21bt)
- 63 Sensor Gain (1, 2, 4, 8, 16, 32, 64, 128)
- 69 Sensor Disply (Raw Weight, Ftr Weight, Out Weight, Raw Counts, Ftr Counts, Sensout)

70 Filter Menu

- 71 Averaging
- DSP Enable (On, Off) 72
- 73 DSP Step
- 74 DSP Qualify
- 75 DSP Factor
- 79 DSP Step Mon

80 Tracking Menu

- Rate Threshld 81
- 82 Sample Intrvl
- 83 Zero Trak Win
- 84 Drift Limit
- 85 Mat Trak Enab (On, Off)
- 89 Rate Monitor

90 Service Menu

- 91 User Access
- 92 Keyboard Lock
- 93 Keyboard Test
- 94 Default Svstm
- 99 Diagnostics

Menu Descriptions

10 Display Menu

- 11 Disp Format Move decimal point or add 'dummy' zeroes to display. Use with Disp Countby to provide results consistent with system accuracy. Note that changes affect many parameter values.
- 12 Disp Countby Set display to count by increments.
- 13 Disp Units Set engineering units for display.
- 14 Bargraph Span Set span (100% value) for bar graph.
- 15 Ext Inpt Mode Configure external input as remote tare (default) or remote totalize.

20 Cal Menu

21 Auto Cal —

-Set Lo Span and Hi Span while moving material into or out of vessel. Must move at least 25% of vessel's total capacity. Provides highest accuracy.

-Set known material weight with Disp Val Correct to shift calibration.

- 22 Manual Cal Fine tune calibration using calculated values or re-enter previous calibration data.
- 23 Linearization Correct weight for vessel structures that respond non-linearly to load changes.
- 24 Zero Tolrance Set tolerance limit for pressing of Zero Key in Run Mode (gross weight display) to prevent accidental zeroing of vessel with material.
- 29 Cal Display View calibration • values.

30 Setpoint Menu

Set up relays and digital outputs:

- Value Energizing value.
- Deadband Material added or removed before setpoint de-energizes.
- Hi/Lo Energize above or below Value.
- Track Energize based on gross. net, or total weight, or system fault.
- Failsafe Setpoint failsafe condition (on, off, or no change)
- Preact Point (material added or removed) before Value is reached at which setpoint energizes.

40 I-Output Menu (with optional PCB) Set up current output:

- 41 IOut Range 4-20 or 0-20 mA.
- 42 4/0mA Low output value. •
- 43 20mA High output value.
- 44 Track Output based on gross or net weight.
- 45 Failsafe Output failsafe condition (on, off, or no change).
- 46 Enable Turn output on/off.

50 Com Menu (with optional PCBs) Set serial address, baud rate, and PLC parameters for communication with other devices.

60 Sensor Menu

Set excitation and gain to match sensors. Set resolution. Display raw, filtered, and output data.

70 Filter Menu

Set up averaging and DSP filter to reduce effect of 'noise'.

80 Tracking Menu

Set up zero and material tracking to reduce effect of 'noise' and drift.

90 Service Menu

Set access and keyboard lock codes, perform diagnostics, and default system.