

USER GUIDE

Reimer

Cement mixer

Display mix control

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I. Revisions

LEVEL	DESCRIPTION – ECO NUMBER	DATE	BY
0	CREATED	2/25/08	JH
1	Added printer	10/15/08	JH
2	Added Remote Print button	11/25/08	JH
3	Added company name to printer and ticket number	1/26/09	AE
4	Changes per Rev 110 addendum	4/7/09	AE
5	Updated to match current code rev	5/8/09	AE
6	Updated to match current code rev	5/22/09	AE
7	Updated to match current code rev	5/27/09	AE
8	Updated to match current code rev	6/9/09	AP
103-116	Shown on obsolete SA-3258-PRR revision record	5/11/11	AP
117	Added water ratio in Gal/Yd3 or Liter/m3. Switched rev	5/11/11	AP
	record to User Guide		
118	Improved accuracy in the Liter/m3 calculations	5/18/11	AP
119	Corrected Cement, Stone and Sand kg values on Mix Setup	7/8/11	AP
	screen		

II. Software Specification

Module	NODE #	HWD Version	Baud Rate	Program Number
10106883	11	10106196v110	250k	SA3258DP200xxx

III. Description of Operation:

This machine is a truck mounted cement mixing unit. The electronic display system is used for monitoring purposes and setup calculations only. It also is used to save specific data after a run is complete. There is also voltage monitoring that is done, so if the system voltage drops below 10VDC two red LED's will flash indicating to the operator that their battery voltage is too low. If the voltage gets too low, the display may not operate properly, and the counts from the pulse pickups will lose accuracy.

Main Screen 1:

Shows in large font the amount of counts that the conveyor has rotated. This is primarily used in calibrating the machine.

The operator will have to print after they are done with the mix. The operator will not have the ability to print previous runs after they have been reset.

Main Screen 2:

This screen shows operating data; which mix is selected, the strength that is being produced, the SA and ST gate positions, the amount of water that has been mixed with the concrete(H20T), current water flow meter reading(H20) the RPM and Count of the cement conveyor, and in large letters the overall cubic yards or meters of concrete that have been distributed. It also shows the C/W (cement to water ratio) overall since the last reset.

Program Screen:

The operator will use this screen to navigate to the following;

Mix Select screen to select which mix he would like to run.

Mix Entry screen, used to setup the parameters for 10 preset mixes. This is where the operator will enter values that they want used for all calculations to include; Truck number, Strength, Pulses per yard (or meter), Cement weight per yard (or meter), Stone weight per yard (or meter), Sand weight per yard (or meter), ST gate position, SA gate position, Low Flow gallons (or liters) per yard (or meter), and Hi Flow gallons (or liters) per yard (or meter).

Setup Parameters, where the operator has the ability to set the contrast and backlight of the display, set the time, set the amount of pulses per gallon or liter of water, and to select between metric and imperial units of measure. This screen also shows the pressure at the belt and auger motors.

Last 5 Mix, when the operator is done with a load, they press the reset button to clear the counts. The values are calculated and will show the yards that were distributed and the strength of the mix for that and the 4 previous runs. This screen is also where the operator will need to go in order to reset the run values.

Admix Screen:

The operator will look at this screen for a reference as to how much of the Hi and Low flow fluid they should be adding to attain the correct mix they selected for the speed in which they are pumping.

Calibration:

There is no calibration required for the display once the program is loaded.

IV. DP200

SPLASH SCREEN



MAIN SCREEN



SCRN – Switch to Run Screen, PGRM - Switch to Program Screen ADMIX - Switch to Add Mix Screen

RUN SCREEN



SCRN – Switch to Main Screen, PGRM - Switch to Program Screen ADMIX - Switch to Add Mix Screen

PROGRAM SCREEN



 $\label{eq:ok} \begin{array}{l} OK-Switch \ to \ Run \ Screen, \\ Up-Highlight \ previous, \\ \end{array} \\ \begin{array}{l} SELECT-Switch \ to \ highlighted \ screen \\ Highlight \ next \end{array}$

MIX SELECT SCREEN



SELECT – Select current mix, Up – Show previous mix, DOWN – Show next mix



MIX ENTRY SCREEN

MIX – Select mix number, SELECT – highlight value to adjust Up – Adjust value up, DOWN – Adjust value down

SETUP PARAMETERS SCREEN



OK – Switch to Run Screen, SELECT – Switch to highlighted screen Up – Highlight previous, DOWN – Highlight next

	LA	ST 5 MIX	ES RESET	
JOB:	Yd3	STREN	GTH:	
1	0.0	0.0	PSI	
2	0.0	0.0	PSI	
3	0.0	0.0	PSI	
4	0.0	0.0	PSI	
5	0.0	0.0	PSI	
ок				

LAST 5 MIX SCREEN

OK - Switch to Run Screen

GPM LPM GPM LPM 0.0 0.00.0 0.0 LOW HI 0K

ADMIX SCREEN

OK - Switch to Run Screen



SET CONTRAST

SET TIME AND DATE



V. **DP200 I/O**

SAUER

2	D	ANFOSS		Gra	aphical Termi	inal
Но	using [Dimensions	41	1.5mm[163 m]	Mounti	ing Panel Cutout Dimensions
ł		IIS9 mm (4.56 in)	111.4 mm (4 30 m)	55 mm (1.27 m)		115.9mm (0.3) (456in (4-0.07))
DP.	200 Serie	s Model Code		Stringt. Song	1.	
A	Model I	lame			DP200 Series Product	Parameters
	DP200	Graphical Display, IP 67 above panel				DP200Series
			<u> </u>		Processor	ARM 7 core, 32 bit/60 MHz
B	Inputs/	Outputs			RAM	64KB on-chip, 512MB on board
	00	1 CAN port-2 DIN/AIN			FRAM	16 KB
	01	1 CAN port 6 DIN/AIN			Power Supply	9-63Vdc/65Watts
	04	2 CAN parts 2 DIN/AIN			Connector	Deutsch DTM-12
	04	2 CAN DOIS, 2 DIN/AIN			Type	ICD with 32 graverale levels
	Real Tir	ne Clock / Low Temperature Eunctionality			Resolution	160 x 240 pixek
~	00	No DTC and ITE			Westerable Area	90mm × 55mm [3, 15 × 2, 16]
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	01	RICandLIF			On conting	Code Coo. 20 85 12085 1495 13 108
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	03	2MB with Application Key			Whration Shock	50g(0.510)
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DP200-00-01-03-00-00 10107380 DP200-01-01-02-00-00 10106883 DP200-01-01-03-00-00 10107381 10107022 DP200-04-01-02-00-00

DP200 Series Related Products Part Numbers

Deutsch Mating Connector Bag As sembly	10100944
DP2XX Mounting Hardware Replacement Kit	10107354
PLUS+1 GUIDE Single User License	10101000
DP200 Panel Seal Replacement Gasket	10107355

DP200 Series



DP200Series			
Processor	ARM 7 core, 32 bit/60 MHz		
RAM	64KB on-chip, 512MB on board		
FRAM	16 KB		
Power S up ply	9-63Vdc/65Watts		
Connector	Deutsch DTM-12		
Туре	LCD with 32 grayscale levels		
Resolution	160 x 240 pixels		
Viewab le Area	80mm x 55mm [3, 15 x 2, 16]		
IP Rating	IP67		
Operation	Code Coo: -20 ℃ +70℃[-4年 +158年]		
Temperature	Code C01: -40°C - +85°C [-40°F - +176°F]		
Storage Temperature	-40 °C — +85°C [-40°F — +176°F]		
Waight	250g[0.5lb]		
Vibration/Shock	5g/ 100g		
EMC/ESD	100W/m / 15W		
Digital Output (0.5A)	1		

se care when wiring mating on nector. Diagram shows evice pins.

		Code B 00	Code B 01	Code B 04
1	Power ground-			
2	Power supply+			
3	CAN 0+			
4	CAN 0-			
5	AIN/ CAN Shield			
6	See CodeB option	NC	DIN/AIN	NC
7	See Code B option	NC	DIN/AIN	NC
8	See CodeB option	NC	DIN/AIN	CAN 1+
9	See Code B option	NC	DIN/AIN	CAN1-
10	DIN/AIN/FREQ IN/			
	CURRENT N			
11	DIN/AIN/FREQ IN/			
	CUNNENIN			
12	DOUT (0.5A)			

Comprehensive technical information: DP2XX Series Graphical Terminals Technical Information, 11023625 Sauer-Danfoss product literature is online at www.sauer-danfoss.com

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COMPLIANT

VI. Service Tool

	Main Screen	
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	Connect Sauer-Danfoss CG150 #0 (Channel 0) 250k	ί.

Water Total Screen

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ECU List	U16 0 U16 0	
0,11 SA3258DP200118		
- Display	0.11 - ZP_Water1	
Water Total	U16 0 0.11 - ZP_WaterPerCement 0.11 - CP_WaterCemTotal	
Parameter Functions	0.11 - CP Total/ards 0.11 - ZP_Conv1 U32 0 U32 0	
- Hi and Low Flow	U32 0 U16 0	
SA and ST Gate	0.11 - CP_TotalWaterCount	
- Privard and Strength	U32 0 0.11 - ZP_Water_AL_1_m3_Yd3	
Cement wt	U32 0	
- Saved Values	0.11 - ZP_Tme_AL_1_m3_Yd3	
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	0.11 - OS LoopCrit	
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Hi and Low Flow		
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Stone and Sand wt		
Saved Values		
Company Name		
Ticket		

Set Defaults Screen (If correct password is entered, all parameters go back to preset

Hi and Low flow p	oresets screen
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SA and ST Gate settings preset screen

Pulses	per ya	rd and	Strength	presets	screen
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- N Parameters		U116 2200	U16 1	873 -			
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Stone and Sand weight presets screen

Cement weight presets screen

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Cement wt	0,11 -	Cement/w/t6		
Saved Values	U16	0 -		
Parameters	0.11 -	CementW/t7		
- Company Name	U16	0 +1		
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File View Design Log Parameter Communication Options Tools Help
Diagnostic Navigator
Prime Graphical Overview Bit Column 0.11-Sav2Strength1 Bit Optimize 0.11-Sav2Strength1 Bit H and Low Flow 0.11-SaveStrength1 Bit H and Low Flow 0.11-SaveStrength1 Bit Stone and Sand M 0.11-SaveStrength2 Bit Stone and Sand M 0.11-SaveStrength1 Bit Stone and Sand M 0.11-SaveStrength2 Bit Stone and Sand M 0.11-SaveStrength2 Bit Stone and Sand M 0.11-SaveStrength3 Bit Stone and Sand M 0.11-Sa
Connect Sauer-Danforc (CLS0 #0 (Channel 0) 250k

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File View Design Log Parameter Co	mmunication Options Tools Help	
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Diagnostic Navigator		
E- @ Reimer	Graphical Overview	
Documents	Dec Hx Oct Html Chr Dec Hx Oct Html Chr Dec Hx Oct Html Chr 0,11-CHAR_1 0,11-CHAR_13	
ECU List	32 20 040 «#32; Space 64 40 100 «#64; 8 96 60 140 «#96; U16 32 + U16 77 +	
E A Log Functions	33 21 041 «#33; ! 65 41 101 «#65; À 97 61 141 «#97; a 0,11-CHAR_2 0,11-CHAR_14	
Display	35 23 043 6#35; # 67 43 103 6#67; C 99 63 143 6#99; C U16 32 ↔ U16 69 ↔	
Parameter Functions	36 24 044 ¢#36; \$ 68 44 104 ¢#68; D 100 64 144 ¢#100; d 0,11-CHAR_3 0,11-CHAR_15	
Hi and Low Flow	37 23 043 «#37, * 89 43 103 «#05, £ 101 83 143 «#001, * 016 32 016 82 016 82 016 82 016 82 016	
	39 27 047 «#39; ' 71 47 107 «#71; 6 103 67 147 «#103; g U11-UHAH_4 U11-UHAH_16	
	40 28 050 «#40; ()2 48 110 «#72; 1 104 88 150 «#104; 1 018 32 - 016 32 - 1	
	42 2A 052 ¢#42; * 74 4A 112 ¢#74; J 106 6A 152 ¢#106; j 0,11-0HAH_J 0,11-0HAH_17	
	43 22 053 443, + 75 45 113 476; L 108 6C 154 4#108; L 0.11-CHAR 6 011-CHAR 18	
	45 2D 055 6#45; - 77 4D 115 6#77; M 109 6D 155 6#109; M U16 32 - U16 32 -	
Company Name	47 2F 057 «#47; / 79 4F 117 «#79; 0 111 6F 157 «#111; 0 0,11-CHAR_7 0,11-CHAR_19	
	48 30 060 «#48; 0 80 50 120 «#80; P 112 70 160 «#112; P U16 32 - U16 32 -	
	50 32 062 c#50; 2 82 52 122 c#82; R 114 72 162 c#114; r 0,11-CHAR_8 0,11-CHAR_20	
	51 33 063 c#51; 3 83 53 123 c#83; 5 115 73 163 c#115; s U16 32 - U16 32 -	
	52 34 064 «#52; 4 64 54 124 «#64; 1 116 74 164 «#116; 0 0.11·CHAR_9 0.11·CHAR_21	
	54 36 066 «#54; 6 86 56 126 «#86; V 118 76 166 «#118; V U16 32 🔆 U16 32 🔆	
	55 37 067 «#55; 7 67 57 127 «#67; 6 119 77 167 «#119; 6 0,11-CHAR_10 0,11-CHAR_22	
	57 39 071 4#57; 9 89 59 131 4#89; Y 121 79 171 4#121; Y U16 82 1016 32	
	58 34 072 4#56; 90 54 132 4#90; 2 122 74 172 4#122; 2 0,11-CHAR_11 0,11-CHAR_23 59 3B 073 4#59; 91 5B 133 4#91; [123 7B 173 4#123; { 1110 0,01-CHAR_23	
	60 3C 074 6#60; < 92 5C 134 6#92; \ 124 7C 174 6#124; 010 69 1 010 02 1	
	61 30 0/5 4#61; = 93 50 135 4#93; 1 125 70 1/5 4#126; + 0116 122	
	63 3F 077 6#63; ? 95 5F 137 6#95; 127 7F 177 6#127; DEL	
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Company Name Screen

 Image: Construction Constr

Ticket Number Screen

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AdMix Meter Options Screen

