

Information for Four Stage **ELECTRIC MOTOR** Driven Compressor Applications

S14M-92230N
Effective 02-93

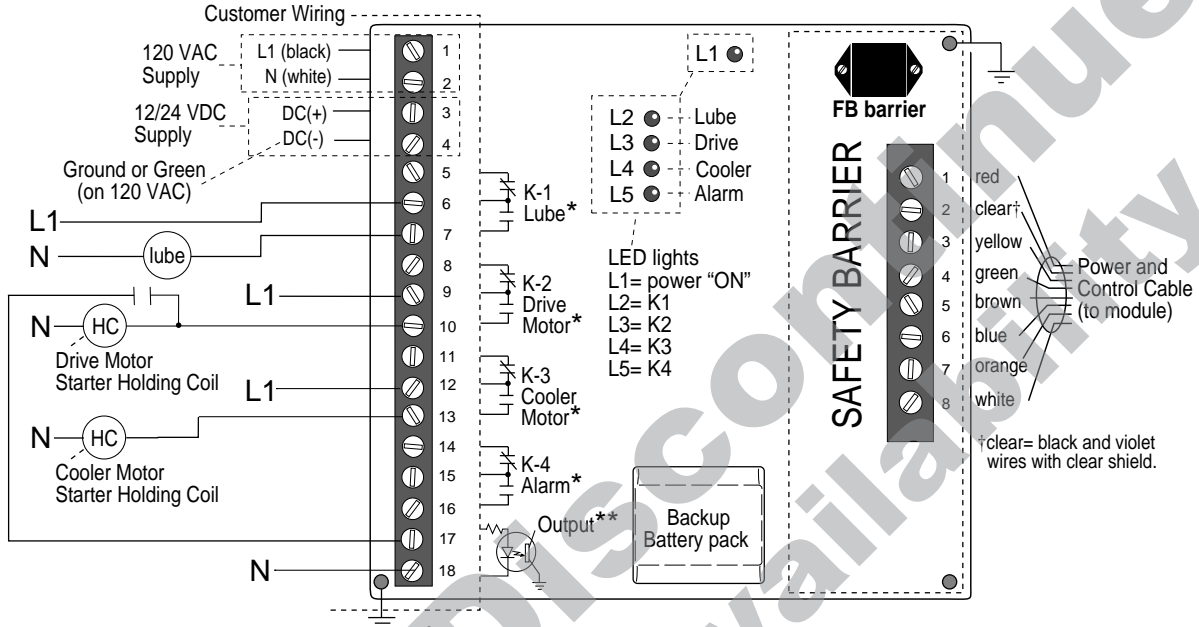


Attachment to Installation and Operation Manual for SELECTRONIC® Annunciator Series 1400

TYPICAL WIRING DIAGRAM

CAUTION: Perform the wiring operation with the power source **OFF** and the area made **NON-HAZARDOUS**. Voltage and current requirements should be within the S1400 ratings. Use hard conduit with seal to protect the wiring from damage. **DO NOT** route sensor leads and power leads in the same conduit.

S1400-PS (120 VAC, 12 or 24 VDC Power Supply)



* K-1 thru K-4 are relay outputs, form "C" dry contacts. 250 VAC @ 3A maximum.
 ** Optically isolated input (for run indication) 24-120 VAC maximum.

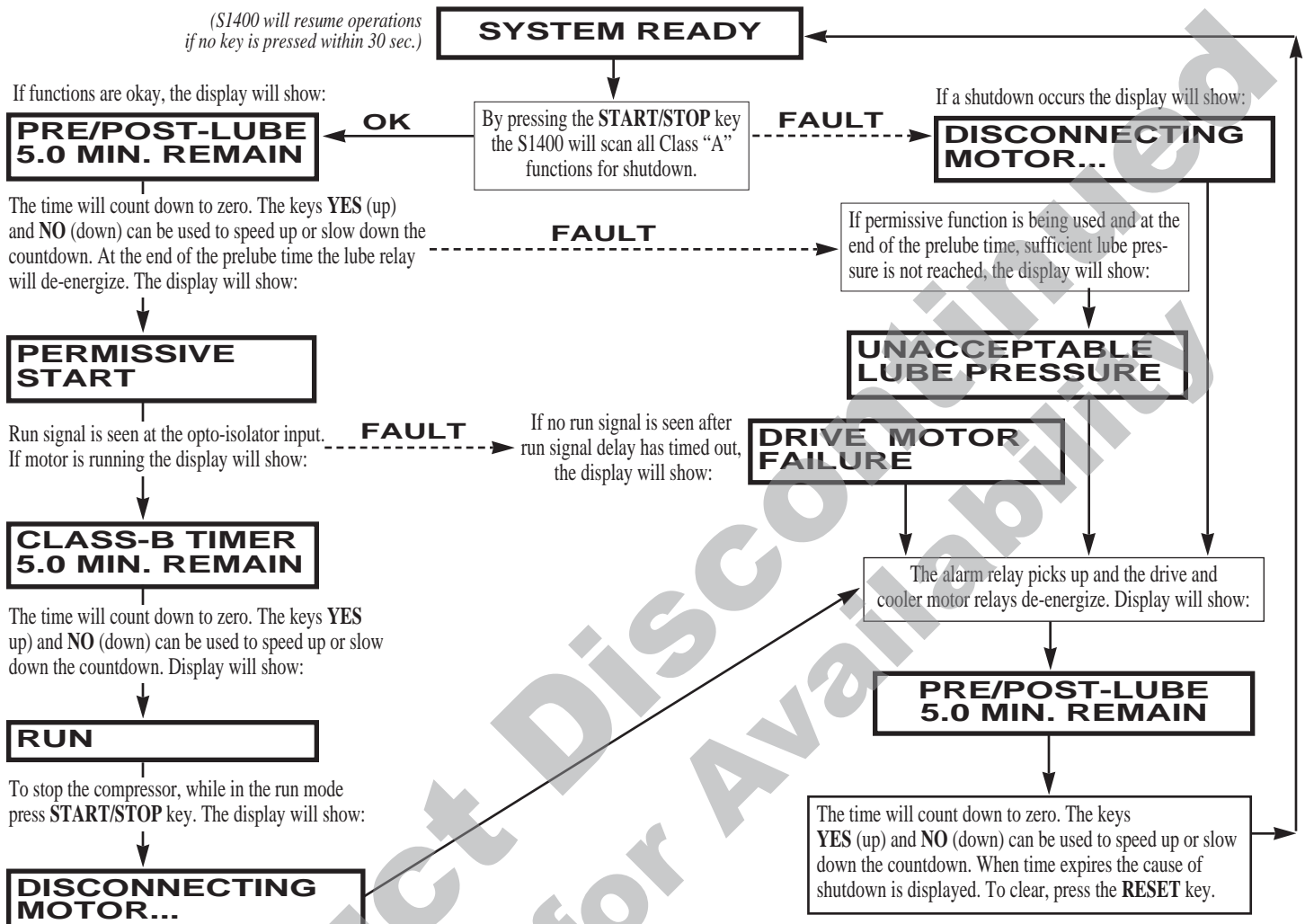
STANDARD PROGRAM

CHANNEL	DISPLAY*	CONDITION	LOCKOUT CLASS	FUNCTION
01	COMPRESSOR OIL PRESSURE	(LOW)	B	SHUTDOWN
02	COMPRESSOR OIL LEVEL	(LOW)	A	SHUTDOWN
03	LUBRICATION NO-FLOW	-	B	SHUTDOWN
04	LOW SUCTION PRESSURE	(LOW/HIGH)	B	SHUTDOWN
05	INTERSTAGE PRESSURE #1	(LOW/HIGH)	B	SHUTDOWN
06	INTERSTAGE PRESSURE #2	(LOW/HIGH)	B	SHUTDOWN
07	INTERSTAGE PRESSURE #3	(LOW/HIGH)	B	SHUTDOWN
08	DISCHARGE PRESSURE	(LOW/HIGH)	B	SHUTDOWN
09	DISCHARGE TEMPERATURE #1	(HIGH)	A	SHUTDOWN
10	DISCHARGE TEMPERATURE #2	(HIGH)	A	SHUTDOWN
11	DISCHARGE TEMPERATURE #3	(HIGH)	A	SHUTDOWN
12	DISCHARGE TEMPERATURE #4	(HIGH)	A	SHUTDOWN
13	SUCTION LIQUID LEVEL	(HIGH)	A	SHUTDOWN
14	INTERSTAGE LIQUID LEVEL #1	(HIGH)	A	SHUTDOWN
15	INTERSTAGE LIQUID LEVEL #2	(HIGH)	A	SHUTDOWN
16	INTERSTAGE LIQUID LEVEL #3	(HIGH)	A	SHUTDOWN
17	INLET SCRUBB. LIQUID LEVEL #1	(HIGH)	A	SHUTDOWN
18	COOLER VIBRATION	(HIGH)	A	SHUTDOWN
19	COMPRESSOR VIBRATION	(HIGH)	A	SHUTDOWN
20	LOW JACKET/WATER LEVEL	(LOW)	A	SHUTDOWN
21	HIGH JACKET/WATER TEMP.	(HIGH)	A	SHUTDOWN
22	SPARE	-	A	SHUTDOWN
23	SPARE	-	A	SHUTDOWN
24	SPARE	-	A	SHUTDOWN
25	SPARE	-	A	SHUTDOWN
26	SPARE	-	A	SHUTDOWN
27	SPARE	-	A	SHUTDOWN
28	SPARE	-	A	SHUTDOWN
29	SPARE	-	A	SHUTDOWN
30	SPARE	-	A	SHUTDOWN
31	SPARE	-	A	SHUTDOWN
32	PRELUBE PERMISSIVE	-	-	SHUTDOWN

*Actual Display will be arranged into 2-lines, 16 characters each.

SEQUENCE OF OPERATIONS FOR ELECTRIC MOTOR DRIVEN COMPRESSOR

POWER UP THE SYSTEM: Make sure the D-sub miniature connector from power and control cable is secured to the back of the S1400 module. The display will show: **SYSTEM READY**. Anytime primary power input signal is lost, the **PRIMARY POWER FAILURE** message will be displayed.



TEST TIMER

While in **SYSTEM READY** or **RUN**, press the **MODE** key and the display will show:

TEST TIMER INITIALIZE ? (NO)

If the **YES** (up) key is pressed the test timer will begin and sensor inputs can be tested without shutting down.

Pressing the **NO** (down) or **MODE** keys will take you into the **PRESETTING PARAMETERS** mode.

Test the sensor input (by tripping the end device), then the name and number for the sensor will be display. Clear the sensor then press the **RESET** key, the display will show:

TEST TIMER X.X MIN. REMAIN

The display will show the remaining time. At the end of the test or to cancel, press the **MODE** key. This will take you into the **PRESETTING PARAMETERS**. To return to **RUN** or **SYSTEM READY**, press the **MODE** key again.

PRESETTING PARAMETERS

While in the **TEST TIMER** mode, press the **MODE** key and the display will show:

PRESET CLASS-B TIMER 5.0 MIN.

Press **YES** (up) or **NO** (down) keys to increase or decrease the values. Press **ENTER** key to accept new values. Press **MODE** to display the next parameter to be set. Repeat the above for each value to be preset. Preset displays will be shown in the following sequence every time the **MODE** key is pressed while in the **PRESETTING PARAMETERS** mode.

PRESET - 0.1 MIN. RUN DELAY

PRESET - 5.0 MIN. PRELUBE

PRESET - 5.0 MIN. POST LUBE

CLASS - B TIMER INITIALIZE [NO]

Press the **MODE** again key to return to **SYSTEM READY** or **RUN** display.