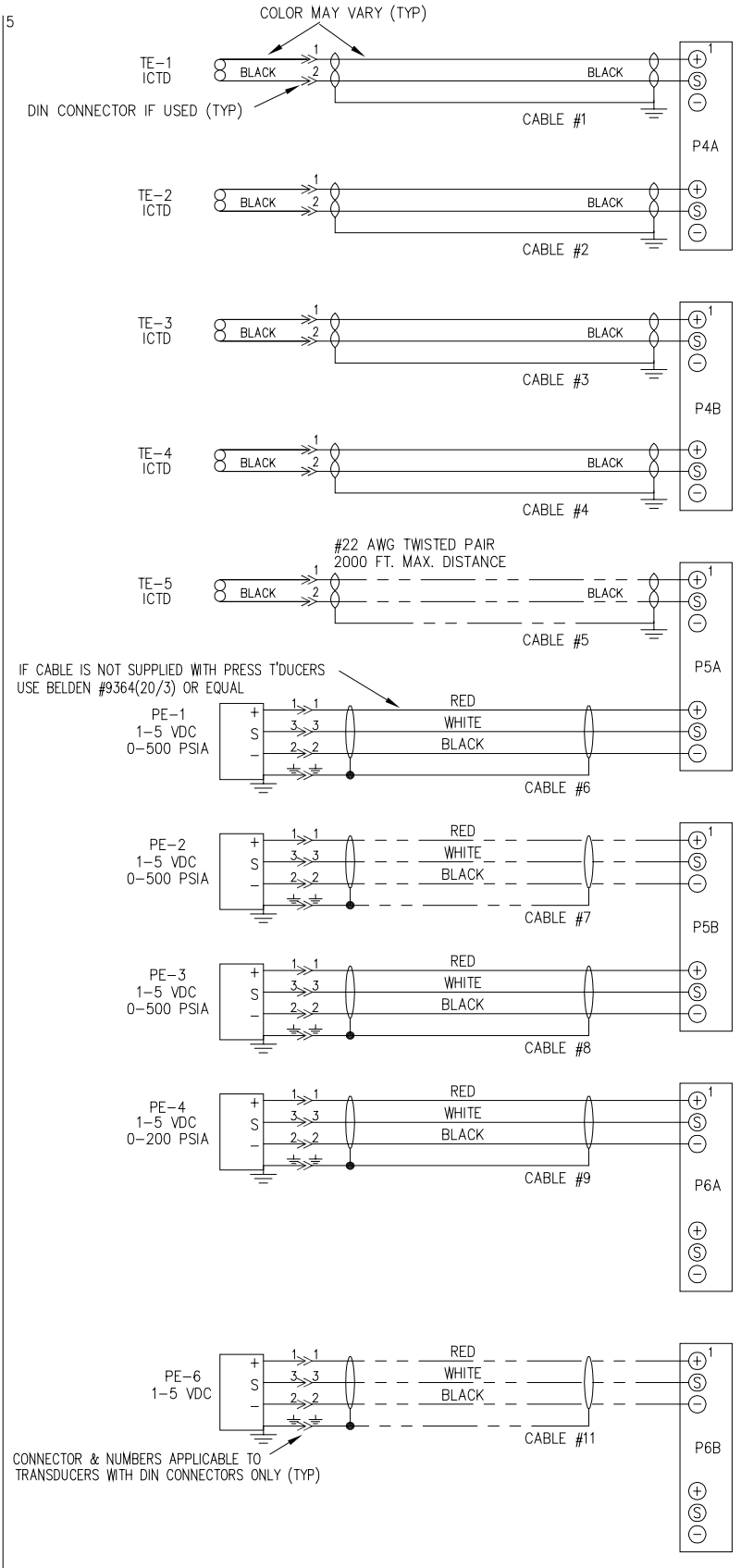
ANALOG BOARD #1



CHANNEL 1
SUCTION TEMP
ICTD

CHANNEL 2
DISCHARGE TEMP
ICTD

CHANNEL 3
OIL TEMP
ICTD

CHANNEL 4
SEPARATOR OIL TEMP
ICTD

CHANNEL 5
LEAVING PROCESS TEMPERATURE
ICTD
CAPACITY CONTROL (OPTIONAL)
WIRING BY OTHERS
SEE NOTE 2A

CHANNEL 6
OIL PRESS
0-5 VDC

CHANNEL 7
FILTER PRESS (OPTIONAL)
0-5 VDC

DO NOT GROUND PE'S
AT PANEL TYPICAL

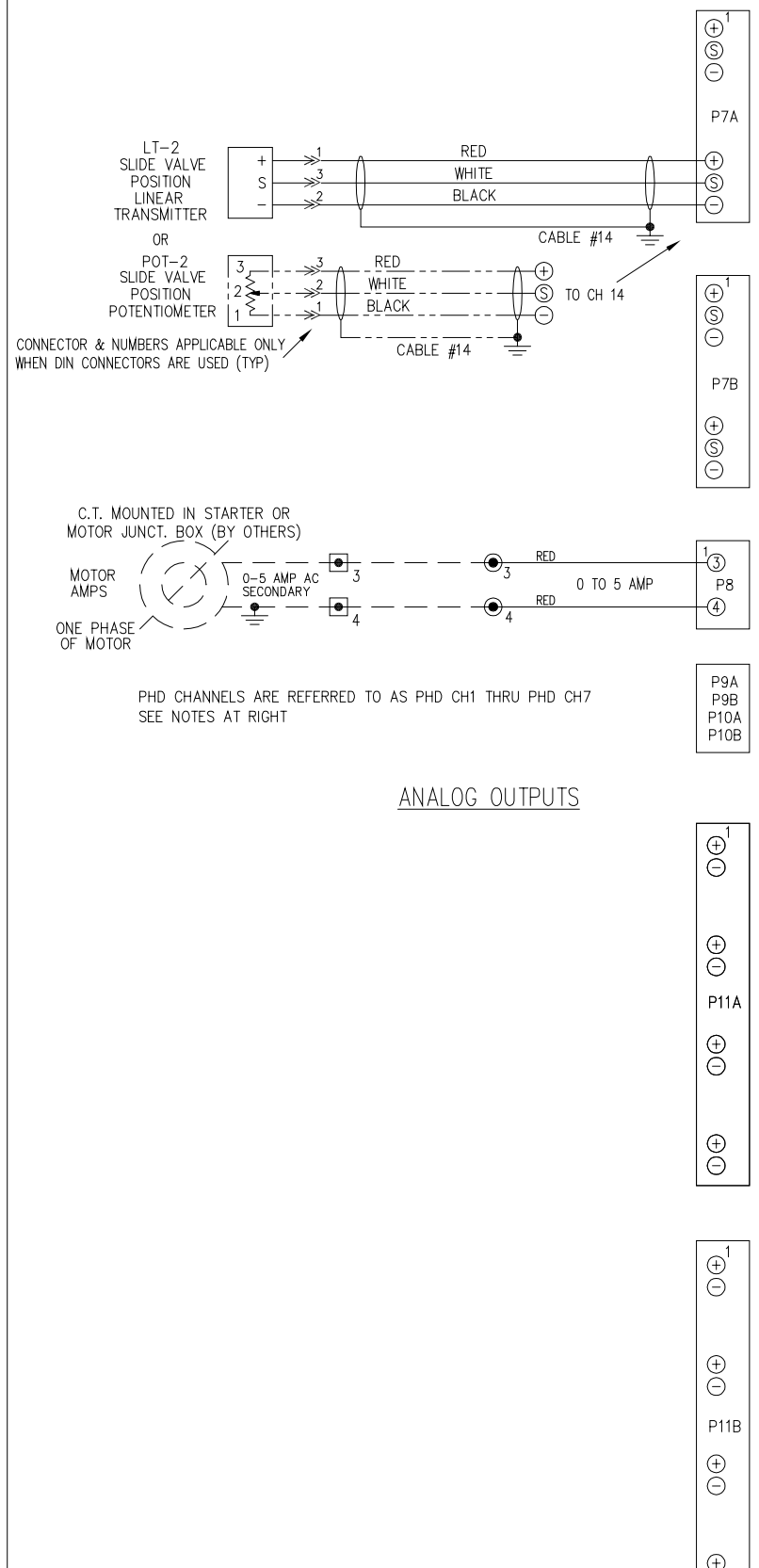
CHANNEL 8
DISCHARGE PRESS
0-5 VDC

CHANNEL 9
SUCTION PRESS
0-5 VDC

CHANNEL 10
NOT USED
0-5 VDC

CHANNEL 11
SYSTEM DISCHARGE PRESS
0-5 VDC PRESS SHOWN
USE WITH DIG. OR ANA.
CONDENSER CONTROL

CHANNEL 12
REMOTE CONTROL SETPOINT
0-20 MA



CHANNEL 13
REMOTE SLIDE VALVE POSITION
0-20 MA

CHANNEL 14
SLIDE VALVE
0-20 MA
OR
CHANNEL 14
SLIDE VALVE
POT

CHANNEL 15
NOT USED

CHANNEL 16
MOTOR AMPS
LK2 (OUT)
ALTERNATE METHOD USING
0-20 MA

OR

CHANNEL 16
MOTOR AMPS
CUR TRAN
SEE QUANTUM IOM MANUAL
FOR C.T. WIRE SIZING TO MOTOR
LK2 (IN)

PHD CONNECTORS P9A & P9B
COMPRESSOR & CPR MOTOR
VIBRATION & TEMPERATURE MONITORING
-FOR 7 CHANNELS DEDICATED TO PHD
SEE DRAWING 649D5050

CHANNEL 1 (EZ COOL PID LOOP IF REQ'D)
PID LOOP OR
PROGRAMMABLE SELECTABLE OUTPUT
TO RE-TRANSMIT ANALOG INPUT
4-20 MA

CHANNEL 2
PID LOOP OR
PROGRAMMABLE SELECTABLE OUTPUT
TO RE-TRANSMIT ANALOG INPUT
4-20 MA

CHANNEL 3
PROGRAM SELECTABLE OUTPUT
TO RE-TRANSMIT ANALOG INPUT
SLIDE VALVE POSITION/CAPACITY
4-20 MA

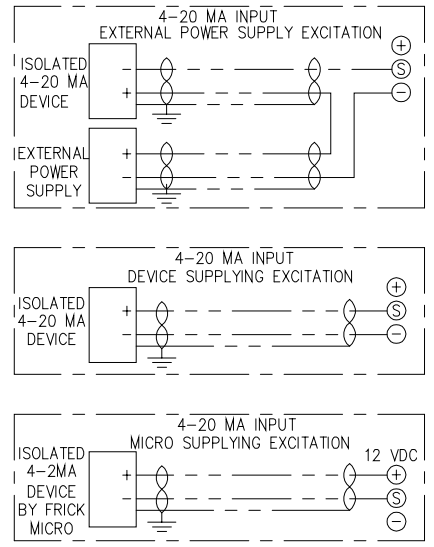
CHANNEL 4
PID, RE-XMITT
ANALOG INPUT
CHANNEL

CHANNEL 5
CONDENSER ANALOG OUTPUT A
LOCATE PRESS. TRANSDUCER
ON CHANNEL 11,
ANA BD. 1

CHANNEL 6
CONDENSER ANALOG OUTPUT B
LOCATE PRESS. TRANSDUCER
ON CHANNEL 11,
ANA BD. 1

CHANNEL 7
PID, RE-XMITT
ANALOG INPUT
CHANNEL

CHANNEL 8
PID, RE-XMITT
ANALOG INPUT
CHANNEL

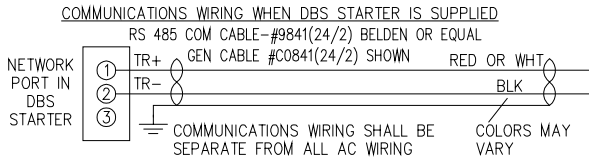


NOTE 1A:
ALL ANALOG LOW VOLTAGE WIRING TO BE RUN IN SEPARATE CONDUIT FROM ALL OTHER WIRING. ALL DRAIN WIRES TO BE INSULATED EITHER TOGETHER OR SEPARATELY WITHIN 2" OR CLOSER OF TERMINATION IF NOT CONFINED OTHERWISE.

NOTE 2A:
TEMPERATURE WIRING SPECIFICATIONS:
MINIMUM CABLE SIZE FOR SENSOR WIRING TO BE 22 AWG, TWISTED PAIR - BELDEN #9320 (20/2) OR EQUAL TWISTED PAIR SUGGESTED IF CABLE HAS A DRAIN WIRE, GROUND DRAIN WIRE AT ONE END ONLY AND INSULATE OTHER END. 2000 FT. MAX. DISTANCE

NOTE 3A:
SPECIFICATIONS FOR TEMPERATURE CAPACITY CONTROL:
- SETPOINT RANGE: -50°F. TO 100°F.
- TEMPERATURE ASSEMBLY FOR NON-HAZARDOUS LOCATION (FRICK P/N 639A0151G03 WITH 1/2"NPT OR 639A0151G02 FOR CABLE STRAIN RELIEF
- WIRE AS SHOWN IN SEPARATE CONDUIT FROM ALL OTHER WIRING, USE BELDEN #9320(20/2) CABLE OR EQUAL

TB1 ON TOP
BOARD OF CPU
COMM 1 PORT
LK16 MUST BE
IN "B" POSITION



REVISION HISTORY

ZONE	REV	ECN	DESCRIPTION	DATE	DR	CHK	APPD
.	.	.	.	.	.	.	.

PURCHASER

FRICK ORD NO | PURCH ORD NO

NOTICE TO PURCHASER
REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY FRICK COMPANY. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER QAP 18

DEC 2PL	DEC 3PL	FRACT	ANGLE
± .01	± .005	± 1/64	± 1/2

DR	HG NOWELL	08-05-04
CHK	DE LEHMAN	08-05-04
APPD	DE LEHMAN	08-05-04
CODE		

YORK Refrigeration
YORK INTERNATIONAL

York International Refrigeration - Frick
Waynesboro, PA 17268

TITLE
WIRING DIAGRAM
RXF
QUANTUM LX

SIZE D | CAGE CODE 23587 | DWG NO 649D5153 | REV E

SCALE | SHEET 2 OF 2