

ZONE	REV	ECN	DESCRIPTION	DATE	DR	CHK	APPD

REVISION HISTORY

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: -50F. TO 100F.
-TEMPERATURE ASSEMBLY FOR NON-HAZARDOUS LOCATION (FRICK P/N 639A015103) WITH 1/2" NPT OR 639A015102Z FOR CABLE STRAIN RELIEF
-WIRE AS SHOWN IN SEPARATE CONDUIT FROM ALL OTHER WIRING. USE BELDEN #9320(20/2) CABLE OR EQUAL



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
CAPACITY CONTROL (OPTIONAL)
WIRING BY OTHERS
SEE NOTE 2A

CHANNEL 6
OIL PRESS
0-5 VDC

CHANNEL 7
FILTER PRESS
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
BALANCE PISTON (IF REQ'D)
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

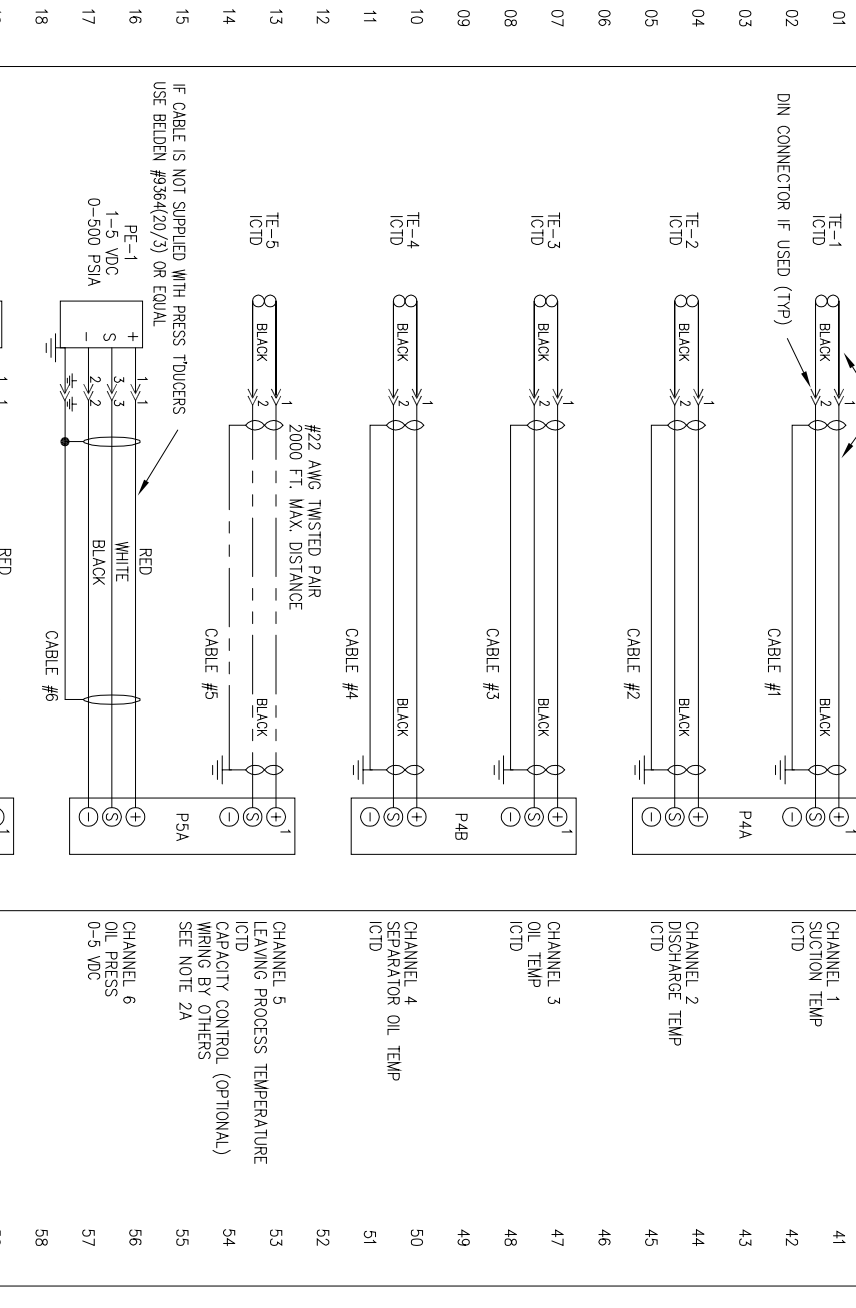
CHANNEL 14
SLIDE VALVE
0-20 MA

CHANNEL 15
SLIDE STOP
0-20 MA

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

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

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



ANALOG OUTPUTS

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-XMIT
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-XMIT
ANALOG INPUT
CHANNEL

CHANNEL 8
PID, RE-XMIT
ANALOG INPUT
CHANNEL

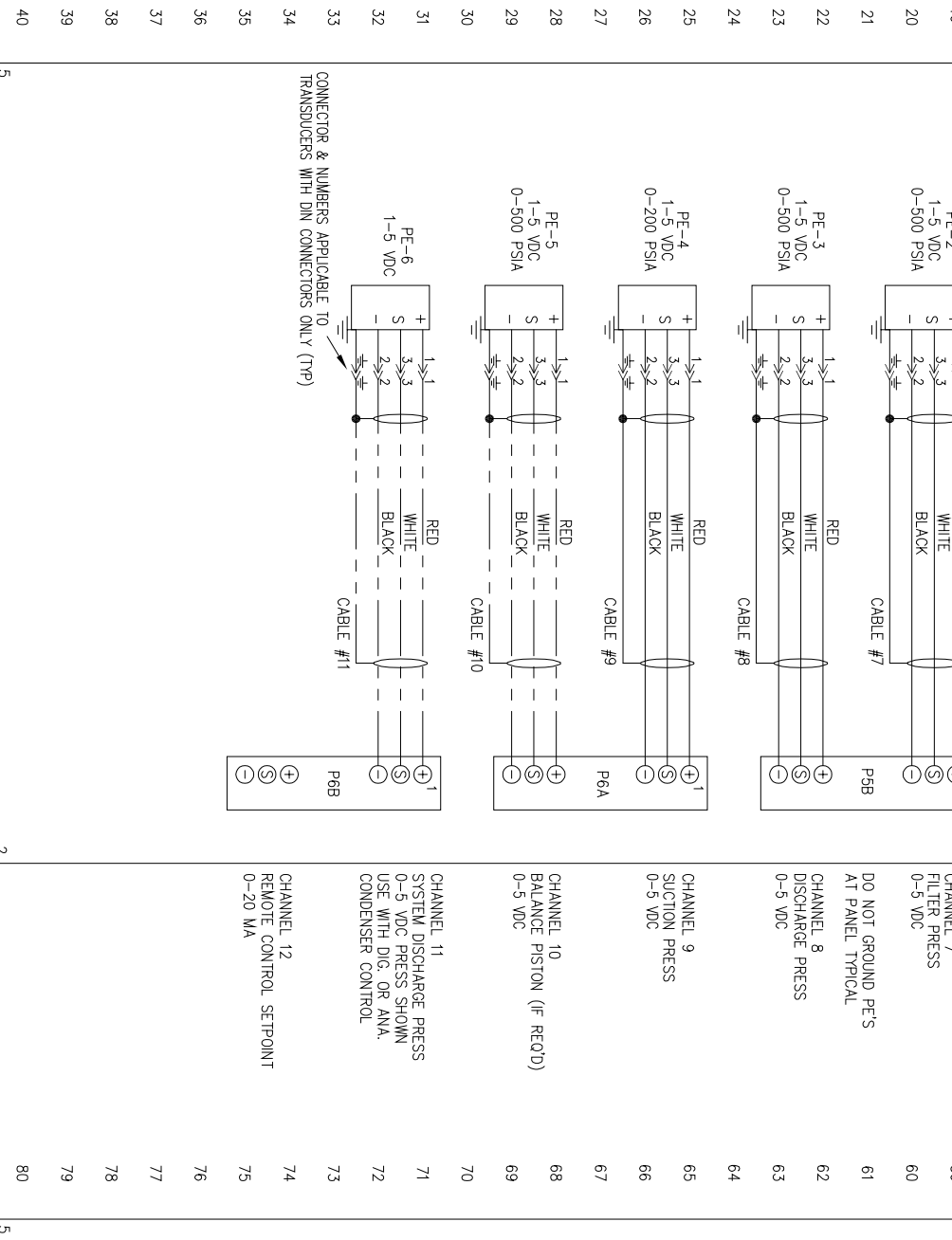
ISOLATED
4-20 MA
DEVICE
BY FRICK
MICRO

EXTERNAL POWER SUPPLY EXCITATION

4-20 MA INPUT
ISOLATED
4-20 MA
DEVICE

4-20 MA INPUT
DEVICE SUPPLYING EXCITATION

4-20 MA INPUT
MICRO SUPPLYING EXCITATION
12 VDC



COMMUNICATIONS WIRING WHEN DBS STARTER IS SUPPLIED
RS 485 COM CABLE #984(24/2) BELDEN OR EQUAL
GEN CABLE #984(24/2) SHOWN
RED OR WHITE
BLK OR WHT
COLORS MAY VARY

COMMUNICATIONS WIRING SHALL BE
SEPARATE FROM ALL AC WIRING

TBI ON TOP
BOARD OF CPU
CONAM 1 PORT
LK16 MUST BE
IN "B" POSITION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
DO NOT SCALE

YORK Refrigeration
York International Refrigeration -
Frick
Wynessboro, PA 17268

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.

PURCHASER: YORK REFRIGERATION

FRICK ORD NO: YORK REFRIGERATION

DATE CODE: 23587

QTY: 1

REV: F

WIRING DIAGRAM
RWFII / RWF
QUANTUM LX

649D5154

SCALE: 1/8" = 1"

SHEET 2 OF 2