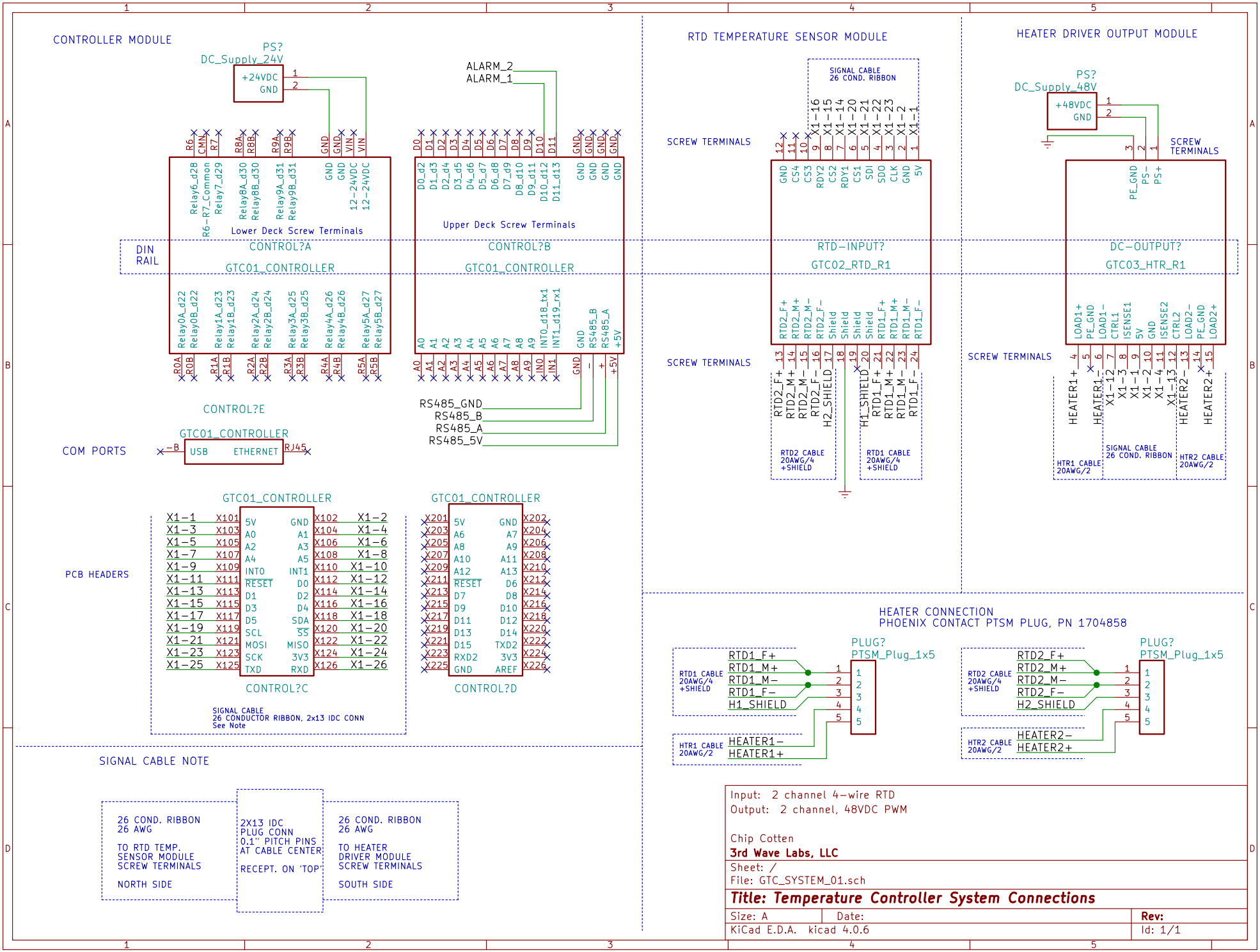
CONTROLLER MODULE
PS?
DC_Supply_24V
+24VDC
GND
ALARM_2
ALARM_1
Lower Deck Screw Terminals
Upper Deck Screw Terminals
DIN RAIL
CONTROL?A
GTC01_CONTROLLER
CONTROL?B
GTC01_CONTROLLER
CONTROL?E
GTC01_CONTROLLER
COM PORTS
USB
ETHERNET
RJ45
RS485_GND
RS485_B
RS485_A
RS485_5V
PCB HEADERS
GTC01_CONTROLLER
CONTROL?C
GTC01_CONTROLLER
CONTROL?D
SIGNAL CABLE
26 CONDUCTOR RIBBON, 2x13 IDC CONN
See Note
RTD TEMPERATURE SENSOR MODULE
SIGNAL CABLE
26 COND. RIBBON
SCREW TERMINALS
RTD-INPUT?
GTC02_RTD_R1
RTD2 CABLE
20AWG/4
+SHIELD
RTD1 CABLE
20AWG/4
+SHIELD
HEATER DRIVER OUTPUT MODULE
PS?
DC_Supply_48V
+48VDC
GND
SCREW TERMINALS
DC-OUTPUT?
GTC03_HTR_R1
HTR1 CABLE
20AWG/2
SIGNAL CABLE
26 COND. RIBBON
HTR2 CABLE
20AWG/2
HEATER CONNECTION
PHOENIX CONTACT PTSM PLUG, PN 1704858
PLUG?
PTSM_Plug_1x5
RTD1 CABLE
20AWG/4
+SHIELD
RTD1_F+
RTD1_M+
RTD1_M-
RTD1_F-
H1_SHIELD
HTR1 CABLE
20AWG/2
HEATER1-
HEATER1+
PLUG?
PTSM_Plug_1x5
RTD2 CABLE
20AWG/4
+SHIELD
RTD2_F+
RTD2_M+
RTD2_M-
RTD2_F-
H2_SHIELD
HTR2 CABLE
20AWG/2
HEATER2-
HEATER2+
SIGNAL CABLE NOTE
26 COND. RIBBON
26 AWG
TO RTD TEMP.
SENSOR MODULE
SCREW TERMINALS
NORTH SIDE
2X13 IDC
PLUG CONN
0.1" PITCH PINS
AT CABLE CENTER
RECEPT. ON 'TOP'
26 COND. RIBBON
26 AWG
TO HEATER
DRIVER MODULE
SCREW TERMINALS
SOUTH SIDE
Input: 2 channel 4-wire RTD
Output: 2 channel, 48VDC PWM
Chip Cotten
3rd Wave Labs, LLC
Sheet: /
File: GTC_SYSTEM_01.sch
Title: Temperature Controller System Connections
Size: A
Date:
Rev:
KiCad E.D.A. kicad 4.0.6
Id: 1/1