

**COOLING SYSTEM
ENCLOURE INTERCONNECTIVITY
DOCUMENT**

ECE 492 2017

Overview

Below is the ICD for the COOLING CONTROLLER enclosure. It includes each type of connector and specifies what travels along each pin. All of the connectors on the COOLING CONTROLLER enclosure are panel mount DT-04.

COOLING CONTROLLER Enclosure

PANNEL 1:

SAFETY LOOP Panel (Left Side) – J1

Connector Type: DT04-4P Panel Mount

Pin 1: Safety loop input wire 1

Pin 2: Safety loop input wire 2

Pin 3: Safety loop input wire 3

Pin 4: Safety loop input wire 4

SAFETY LOOP Panel (Middle) – J3

Connector Type: DT04-4P Panel Mount

Pin 1: Safety loop output wire 1

Pin 2: Safety loop output wire 2

Pin 3: Safety loop output wire 3

Pin 4: Safety loop output wire 4

CAN and POWER Panel (Right Side) – J4

Connector Type: DT04-6P Panel Mount

Pin 1: CAN H

Pin 2: CAN L

Pin 3: SHIELD

Pin 4: CHGND

Pin 5: 24VDC

Pin 6: 24V RTN

PANNEL 2:

Pump and Sensors (left side) – J6

Connector Type: DT04-8P Panel Mount

Pin 1: Pump POWER

Pin 2: Pump GND

Pin 3: Sensors 5V

Pin 4: TEMP SENSOR 1 INPUT

Pin 5: TEMP SENSOR 2 INPUT

Pin 6: TEMP SENSOR 3 INPUT

Pin 7: FLOW METER INPUT

Pin 8: N/A

Pump and Sensors (Middle) – J5

Connector Type: DT04-8P Panel Mount

Pin 1: FANs POWER

Pin 2: FANs GND

Pin 3: FAN1 PWM

Pin 4: FAN2 PWM

Pin 5: FAN3 tachometer

Pin 6: FAN4 tachometer

Pin 7: N/A

Pin 8: N/A

CAN and POWER Panel (Right Side) – J2

Connector Type: DT04-6P Panel Mount

Pin 1: CAN H

Pin 2: CAN L

Pin 3: SHIELD

Pin 4: CHGND

Pin 5: 24VDC

Pin 6: 24V RTN