



- A – Bulkhead Receptacle Amphenol MS-3102E-28-12P
- B – 90 ° Plug Amphenol MS-3108A-28-12-S
- C – 90 ° Plug Amphenol MS-3108A-28-12-P
- D – Bulkhead Receptacle Amphenol MS-3102E-28-12S
- E – Cable – Belden 8315 15 Twisted Pair, 22 AWG with Overall Foil and Braid Shield, 30ft long
- F – Analog Input (AI-100)
- G – Analog Input/Output (AIO-610)
- H – Digital Input (DI-301)
- J – RTD and Resistance Input (RTD-122)
- K – 50 Terminal Strip
- L – XX Terminal Strip
- M – Cable – Belden 8302 2 Twisted Pair, 22 AWG with Overall Foil and Braid Shield

Note: All M cables are to be used as a single twisted pair for each signal set with the exception of module J (RTD) which will require 3 wires

NOT FOR CONSTRUCTION

0	ORIGINAL ISSUE	DATE	BY	APPROVED
REV	DESCRIPTION	DATE	BY	APPROVED

<p>THIRD-ANGLE PROJECTION</p>	This drawing was prepared by ORNL solely for use in work performed under Department of Energy contract number DE-AC05-00OR22725 and applicable Work for Others Agreements and Cooperative Research and Development Agreements. This drawing is property of ORNL and must be returned upon request.		<p>OAK RIDGE NATIONAL LABORATORY operated for the U.S. Department of Energy under contract DE-AC05-00OR22725 Oak Ridge, TN</p>			
	UNLESS OTHERWISE NOTED 1. ALL DIMENSIONS ARE IN INCHES 2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 3. MACHINED FINISH 125 MICRO-INCHES RMS 4. CONCENTRICITY .010 TIR 5. MACHINED ANGLES ±1/2° FORMED ANGLES ±1° 6. BREAK SHARP CORNERS AND REMOVE ALL BURRS 7. WHOLE NUMBERS AND FRACTIONS ±1/16 8. X DECIMALS ±.030 9. XX DECIMALS ±.010 10. XXX DECIMALS ±.005		<p>REMOTE SYSTEMS GROUP NUCLEAR SCIENCE & TECHNOLOGY DIVISION</p>			
DES			<p>MERIT EXPERIMENT CONTROL SCHEMATIC</p>			
DRW						
CHK						
ENG						
QA			CAD FILE	PREV ASSY	SCALE	SHEET
			SIZE	DWG NO.	1:1	1 of 1
DRAWING APPROVALS		DATE	203-HJT-8000		REV B	

DWG NO. 203-HJT-8000