इरिसेट

गाड़ी डिटेक्शन प्रयोगशाला

प्रयोग **सं :** टी डी एल **-** 16

IRISET

TRAIN DETECTION LABORATORY

EXPERIMENT NO : TDL – 16

नाम
Name : _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

अनुक्रमांक
Roll No : _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

प्राप्तांक
Marks Awarded :

पाठ्यक्रम
Course : _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

दिनांक
Date : _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

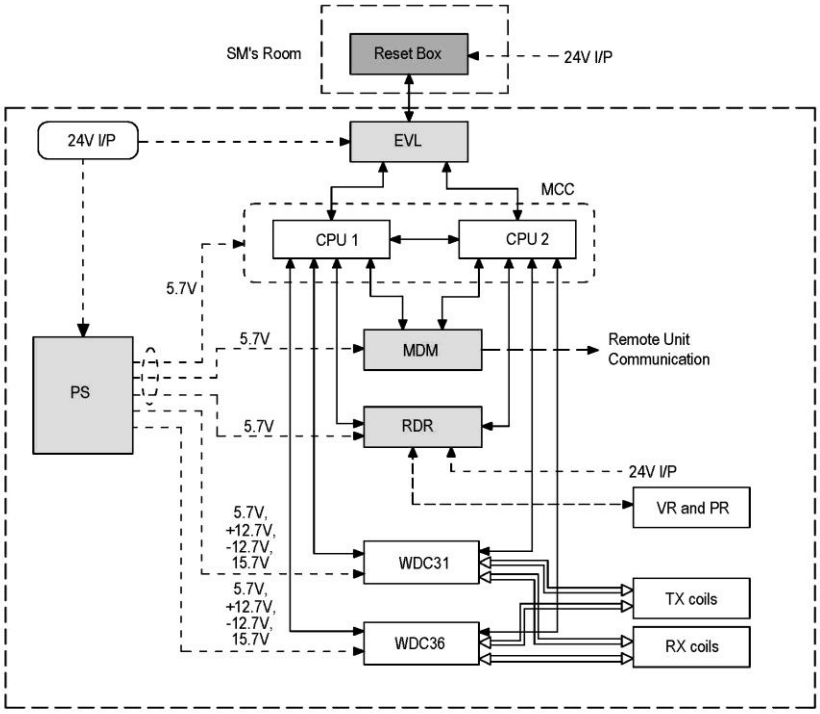
अनुदेशक के आद्यक्षर
Instructor Initial :

Single Section Digital Axle Counters MEDHA - MAC180

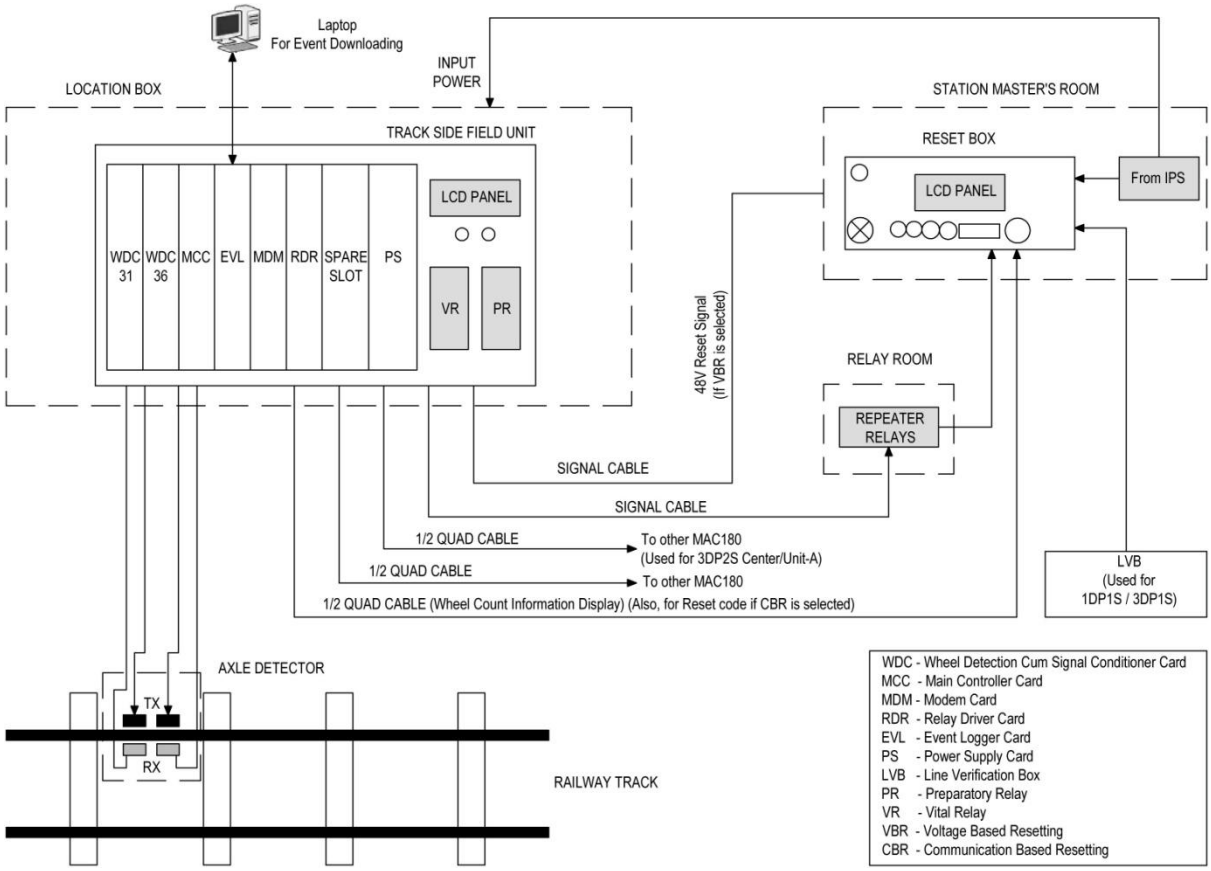
(RDSO / SPN / 177 / 2012 – Ver. 3)

Purpose:
1. Identification of Sub-systems / Cards
2. Study of Indications on Sub-systems/ Cards
3. Study of 2DP1S Configuration
4. Study of Communication based and Voltage based Resettings
5. Downloading of Errors & Events
6. Maintenance Log Sheet
7. Measure Receiver Voltage and Frequency on calibration settimng

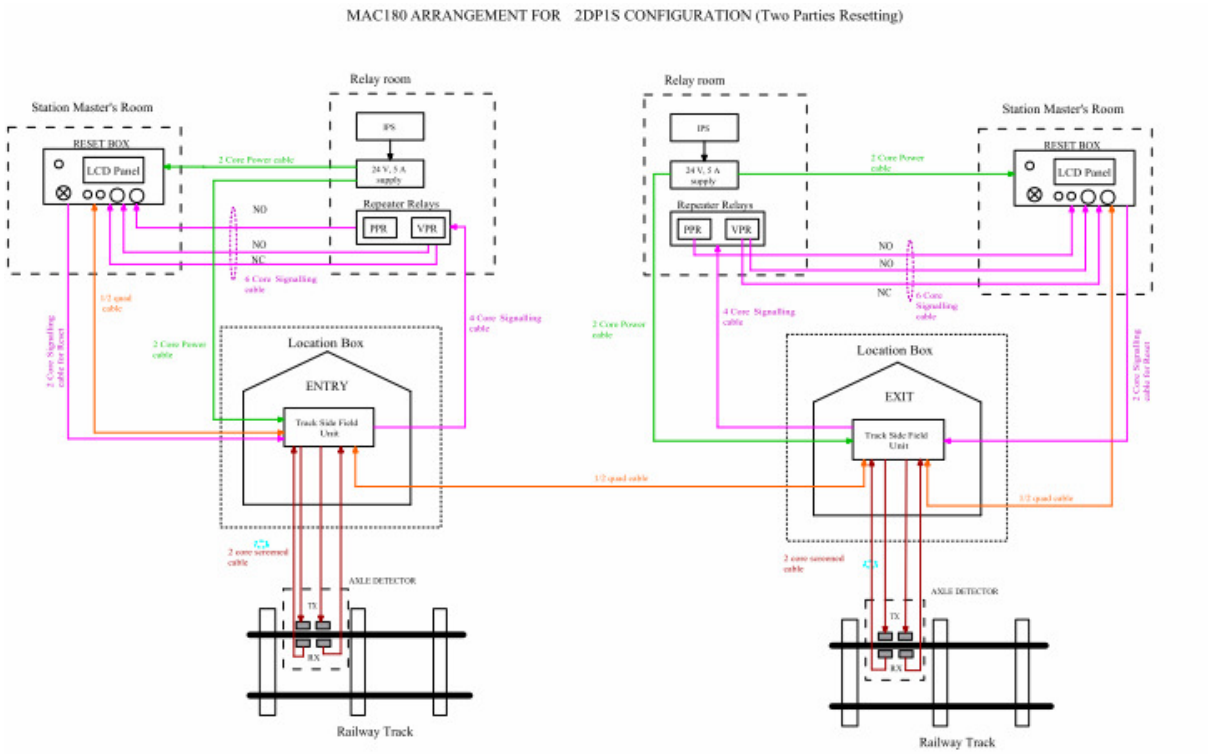
Functional diagram:



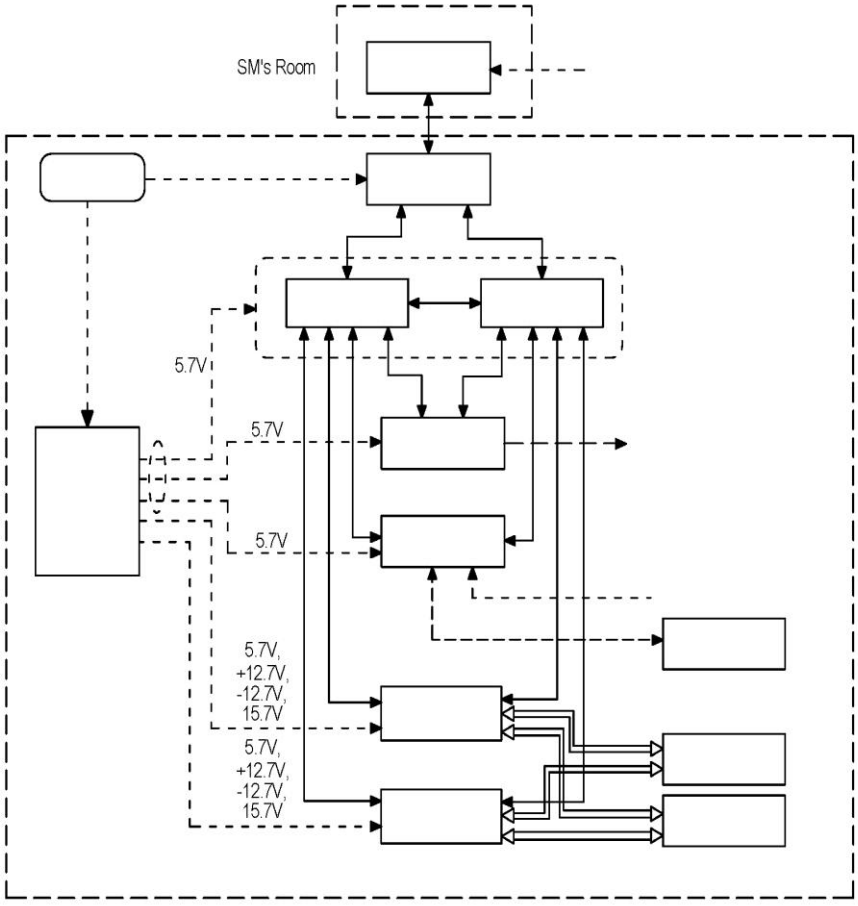
Physical Diagram



2DP1S Configuration



1. Find the card names of MEDHA SSDAC given Below.



2. Identify last 10 Errors of SSDAC

3. Download Events from Rest Box and Event logger of TSFU

4. Identify Health Status of various sub-systems in TSFU

5. Fill the following Maintenance Log sheets:-

M18WDC31-01 (WDC31)

S. No	Parameter (measured at Facia Test Points)	Terminals	Expected Range		Actual Value		Rem-ark
			Voltage (RMS)	Frequency (KHz)	Voltage (RMS)	Frequency (KHz)	
1	TX Coil Voltage	TX+, TX-	64 – 87	30.5 to 31.5			
2	RX Coil Voltage (without wheel)	RX+,GND	0.45 to 1.6	30.5 to 31.5			
3	RX Coil Voltage (with Dummy wheel)	RX+,GND	0.45 to 2	---			
4	Wheel Present Input Voltage (without wheel)	WPI,GND	1.3 to 1.8	61 to 63			
5	Wheel Present Input Voltage (with Dummy wheel)	WPI,GND	1.3 to 1.8	---			

M18WDC36-01 (WDC36)

S. No	Parameter (measured at Facia Test Points)	Terminals	Expected Range		Actual Value		Rem-ark
			Voltage (RMS)	Frequency (KHz)	Voltage (RMS)	Frequency (KHz)	
1	TX Coil Voltage	TX+, TX-	64 – 87	35.5 to 36.5			
2	RX Coil Voltage (without wheel)	RX+,GND	0.45 to 1.6	35.5 to 36.5			
3	RX Coil Voltage (with Dummy wheel)	RX+,GND	0.45 to 2	---			
4	Wheel Present Input Voltage (without wheel)	WPI,GND	1.3 to 1.8	71 to 73			
5	Wheel Present Input Voltage (with Dummy wheel)	WPI,GND	1.3 to 1.8	---			

S.No.	Parameter	Terminals	Expected range	Observation (Yes/No/NA)	Remarks
1	Input Voltage measured at termination		16.8 to 28.8 V		
2	VPR Coil Voltage (when VR is in Pick-up state)		>22V		
3	Are there any Loose contacts/cable damages and overall system is OK?		-		
4	Whether Sensors/Deflectors condition is OK?		-		

Date: **Signature of the Trainee**