



Autometers Alliance Ltd



VIGILANCE CONTROL DEVICE



Autometers Alliance Ltd offers a top-of-the-line Vigilance Control Device (VCD) that supervises the alertness of the driving crew during train movement. This device can be installed in diesel electric and electric locomotives / EMUs as a standalone unit.



Technical Features

No. of inputs	24 Nos. optically isolated input signal and 2 Nos. speed signal for speed sensor interface
Type of inputs	Digital type
Indications	Proving light indications, vigilance / actions / brake cycle indications, fault indication
Display	16x2 LCD display on main unit for indication of penalty brake application counter
VCD suppression	Through logical zero speed, cab-status signal, brake application and multiple unit configuration
Bypass switch	To bypass VCD operation
Output signal	Opto-isolated signals to drive visual warnings, audio warning and for activation of DMR and penalty brake
Data storage	Sufficient storage of event (7000) and fault data into non-volatile memory
Electro Mechanical Counter	To indicate penalty brake counts
Data analysis	Through Windows-based Data Extraction and Analysis software to analyse event & fault data
PC connectivity	Through USB port
Operating power supply	50-140 VDC
Driver Display	LCD Display, LED Indications & Operative control buttons on the driver panel
Standards	IEC-60571, IEC61000-4-2,3,4,6,8 & CISPR11

Salient Features

- Normal driving activities function like throttle, master controller, horn, sander, loco brake, train brake, dynamic brake, headlight etc. are taken as input signals for VCD operation.
- Improves vigilance, and provides warning and brake application signals in a predefined manner.
- Records data of penalty brake application event, VCD By pass, VCD suppression in a non-volatile memory for management reviews, if required.
- Windows-based data extraction and analysis software for report generation
- User friendly data analysis software allows to configure the unit with predefined timing cycle parameters.
- Data transfer through Pen-drive

Applications

- Safety of train in case of absence of driving crew
- To create alertness in driving crew for safe train movement.
- Data analysis for management review in case of train derailment/accident.



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