DIGITAL SYNCHRONIZED CLOCK & CALENDAR SYSTEM

CLEAN ROOM CLOCK

14:47:12

20 09 2016

AI-SYNC-DT2-S   ACE INSTRUMENTS

MODEL AI-CL2-DT

Salient Features

These are Digital Synchronized Clocks with Date & Real Time Display working on RS485 Modbus Communication.The slave clocks (upto 120 Nos., Repeaters for every 30 Clocks may be necessary) can be connected to the master clock via a 2 core communication cable multidrop network & the master clock time is synchronized with all the slaves. All the clocks in the synchronized clock network show the exact same date & time right upto the seconds. The Master Clock (Model AI-CL2-DT-M) has the time setting provision with high accuracy of +/- 60 seconds per year (Optional GPS Master Clock with Accuracy of +/- 1 second per year) & the slave clocks (Model AI-CL2-DT-S) show the master clock time & date all across the network. Time & date are accurately maintained even in the case of power cut by in built time & calender maintenance battery.

The Synchronized Clocks (Both Master & Slave Clocks) with date calender have 6 Displays (HH:MM:SS) of 2.5" height for time & 8 displays (DD:MM:YYYY) of 1.5" Height for date calendar. The slave clocks can be at a maximum distance of upto 1200 mtrs. (1.2 Km.) & yet show accurate synchronized time & date calendar, same as the master clock, though repeaters may be necessary for synchronization over longer distances.

The Synchronized Clocks are available in Options of Overall M.S. Powder Coated Enclosures or M.S. Powder Coated enclosure with stainless steel Front Flush Plate Enclosures for Clean Rooms & also Flameproof Aluminium LM-6 Body Certified by CIMFRI, Dhanbad for use in Gas Group Areas I, II, IIA & IIB.

Specifications

Display Master (Model AI-CL2-DT-M)	6 Digits of 2.5" Height 7 Segment Super Bright Red LED Display for Hours, Minutes & Seconds (HH:MM:SS) 8 Digits of 1.5" Height 7 Segment Super Bright Red LED Display for Calendar Date, Month & Year (DD:MM:YYYY)
Display Slave (Model AI-CL2-DT-S)	6 Digits of 2.5" Height 7 Segment Super Bright Red LED Display for Hours, Minutes & Seconds (HH:MM:SS) 8 Digits of 1.5" Height 7 Segment Super Bright Red LED Display for Calendar Date, Month & Year (DD:MM:YYYY)
Communication	RS 485 Propreitory Communication between Master & Slave Clocks
Time & Calendar Input	Master : Infra Red Wireless Remote Control Slave : No Keys since synchronized to Master Optional Wireless Infrared Remote for Time & Calendar Setting in case of communication failure
Size (Standard)	220 x 390 x 45 mm. (H x W x D)
Time Display	HH: MM:SS , 24 Hours Time Format
Input Supply	24 V.D.C. 500mA/ Optional 230 V.A.C. , 50 Hz.
Max. No. of Slaves	Upto 120 Slaves Max. over RS 485 Communication
Protection Class	Overall stainless steel hosting (Other Models: MS Powder Coated Box Stainless Steel Front Plate suitable for Clean Rooms, Flameproof Housing Enclosures also available)

Temp | Humidity | Pressure| Differential Pressure| Vacuum| Gases | Particle | Air Flow
Moisture | Dissolved Oxygen | Radiation | Air Quality | Light / Lux| Distance | Vibration