

TEMPERATURE



PRACTICAL COUNTER



DIRTY FILTER



HUMIDITY



SYNC. TIME (CLOCK)



DOOR INTERLOCK



DIFF. PRESSURE



AIR FLOW



AHU ON/OFF

# ENVIRONMENT MONITORING SYSTEM

FEATURES



REPORT



GRAPH



TOUCH SCREEN



ALARM



SMS / E-MAIL



SOFTWARE



DOOR LOCK



DATA LOG



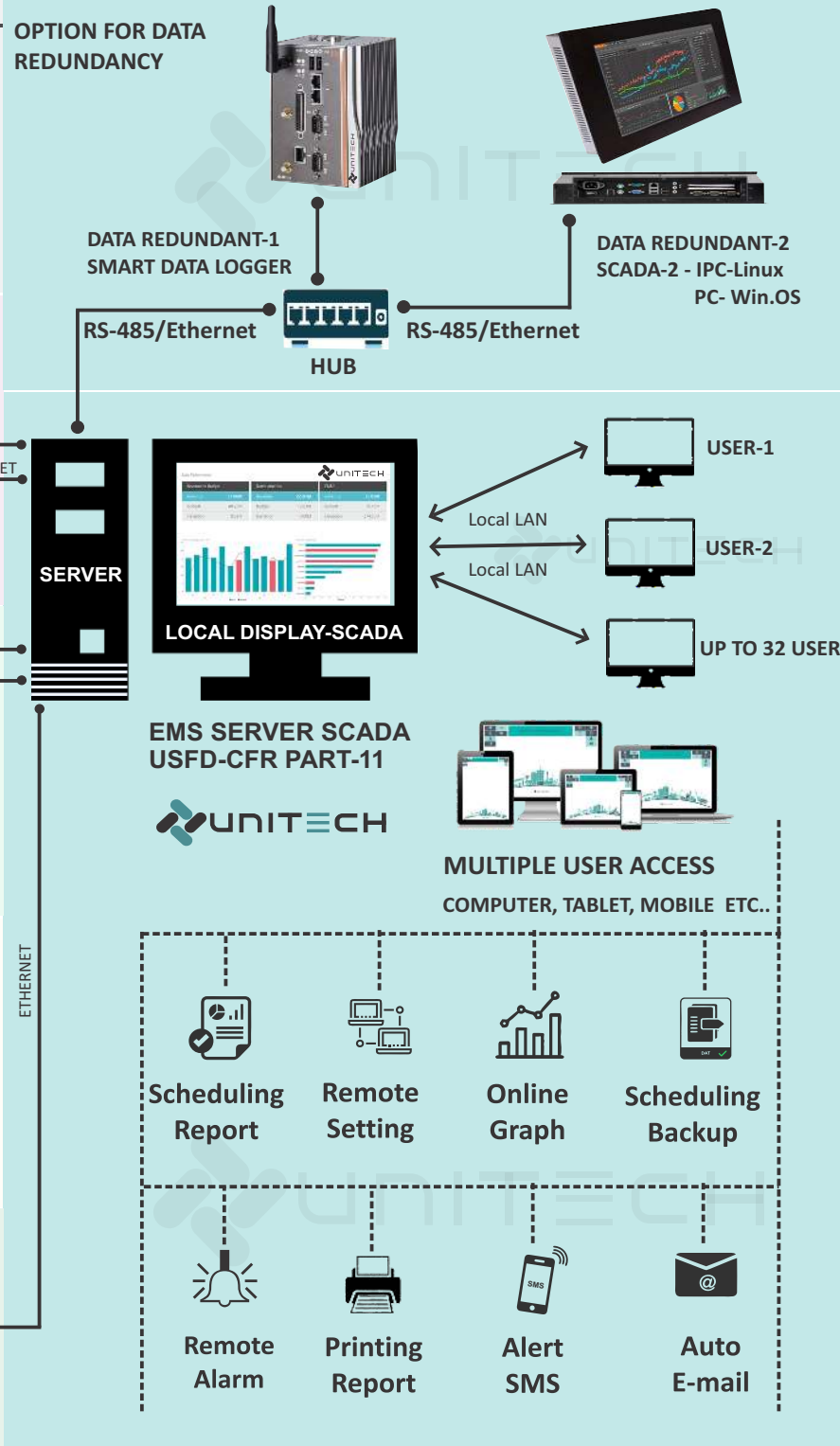
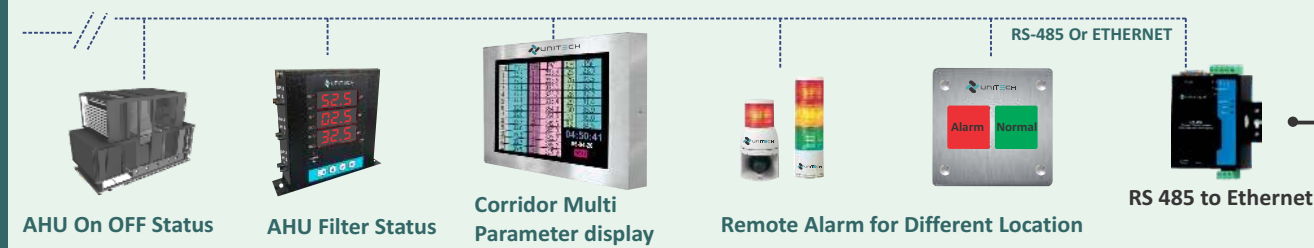
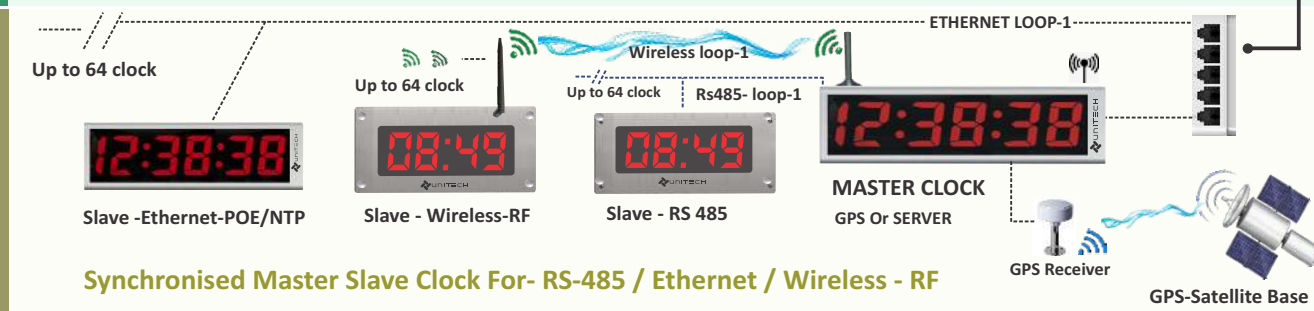
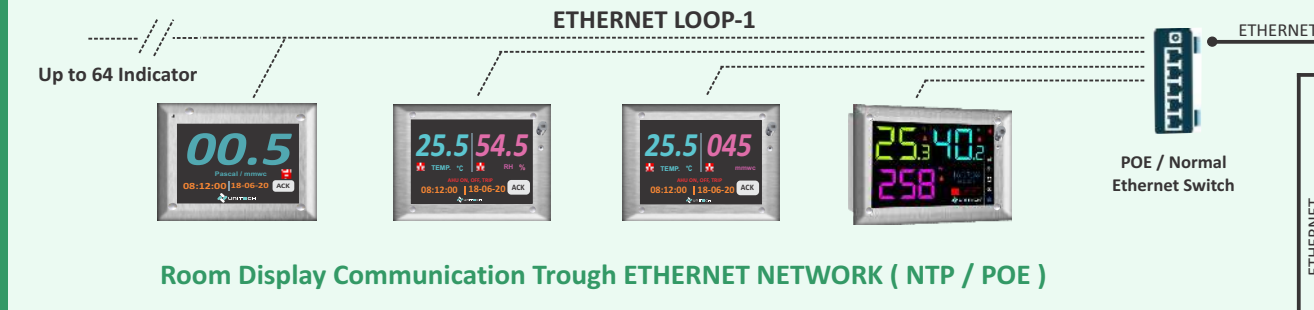
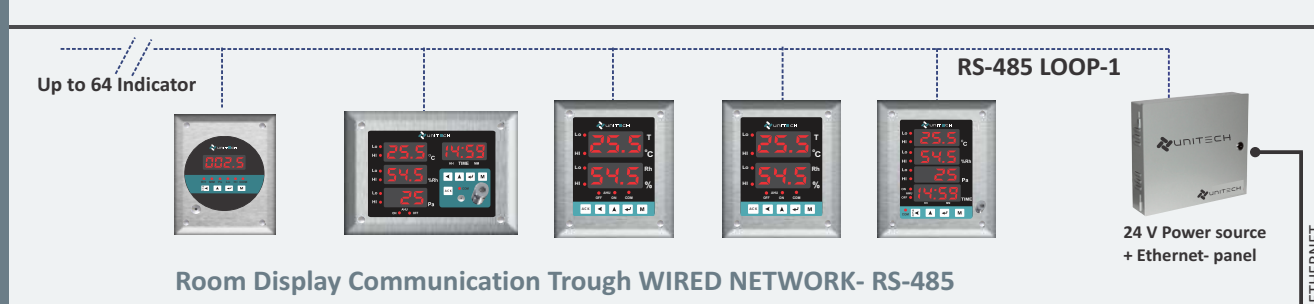
SYNC. CLOCK



MULTI USER



ETHERNET-RS485



## ENVIRONMENT MONITORING SYSTEMS - EMS - SOFTWARE

**UNIEMS V4/5/6.0- A real time online centralized Temperature/ Relative Humidity/ Differential Pressure Monitoring Software and Hardware. The software and hardware are 21 CFR Part 11 READY as per US FDA policy to maintain Good Manufacturing Practices (GMP).**

All the Departments directly related to production and storage of the pharmaceutical drugs – Manufacturing line, packing, quality control, and warehouse had clean room display units (UNITTECH make) placed to measure Temperature, Relative Humidity and Differential Pressure and Real Time. UNITTECH Clean Room Instruments measured Temperature and Humidity via an Integral sensor or Remote sensor.

### EMS SCADA INSTALLATION

- ✦ Installation that is one-time for Lifetime! Eliminate the need for multiple software installation & qualifications!
- ✦ Windows & Server-based; Web-based Software accessible through Browser (N Number Of user)

### SAFE & SECURE

- ✦ Automatic & Manual daily data backup facility. Automatic data backup can be done both, remotely & locally
- ✦ On single click for Data Restore & Data Archival

### DATA MANAGEMENT

- ✦ FOR PAPERLESS!! e-Signature, e-Review, e-Approval, e-Comments of: Data Logs | Alarms | Audit Trails etc..
- ✦ For Data integrity, Data is encrypted during Wireless transfers to protect against eavesdropping, data tampering, and transfer errors.
- ✦ UT-1410 automatically synchronizes with Network Time Protocol (NTP) servers over the Internet.
- ✦ Stay Audit-Ready every single day through Supervisory Email facility!
- ✦ Run-time calculation of MKT ,MIN, MAX, AVERAGE etc..
- ✦ Multi-level data authorization (through e-review & e-approval) with unlimited user.
- ✦ Comprehensive Audit Trails of Alarms, User activity, Indicator settings, email & SMS generation

### CONFIGURATION

- ✦ Department-wise segregation of users, indicator & data
- ✦ Configure multiple user-groups (Operator, Supervisor, Admin, Administrator , Super administrator etc.
- ✦ Plant-wide, Area wise, departments wise harmonization of reporting format (header, footer, Logo etc.)
- ✦ Configure the type & no. of alarms to be sent via email/SMS & configure delay time too

### KEY FEATURES

- ✦ System Upgrade & Diagnosis for troubleshooting via any Remote desktop software supported
- ✦ Viewing I/O Status & Running Hours of all major components. for shelf-life detection.
- ✦ Centralized user-defined Alarms, Alerts & Notifications through SMS & Emails
- ✦ Software & Hardware to keep you USFDA 21 CFR Part 11 Ready to make the system convenient for audit.
- ✦ Optional Linux Base SCADA : To avoid limitation of windows base operating systems, Linux SCADA is more trouble free reliability.
- ✦ Smart Data Logging : Having huge memory (4 GB - 2 Year Data backup) with diff. IOs for Redundant Data Recovered In case of Power or Communication failure in Computer / Software / Converter

### DOCUMENTATION & TRAINING

- ✦ Validation with IQ, OQ, DQ, PQ & Calibration certificates ✦ Operations & maintenance manuals ✦ GA & Electrical drawings
- ✦ Material test certificates ✦ Training to end-users

FEATURES



REPORT



GRAPH



TOUCH SCREEN



ALARM



SMS / E-MAIL



SOFTWARE



DOOR LOCK



DATA LOGE



SYNC. CLOCK



MULTI USER



ETHERNET-RS485

UT-14XX- Clean Room Monitor Basic Model - Rs 485, 4-20 mA, 0-10V DC Output



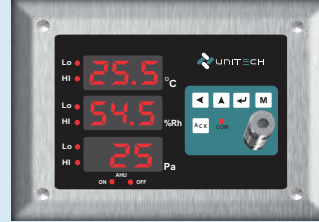
1401- Diff. Pressure



UT-1404- Temp.+ Rh



UT-1405- Temp. +DP + Time



UT-1406- Temp.+RH+DP



1407- Temp+RH+DP+Time

- ✦ LED Dis.: 0.56 inch
- ✦ Modbus RS-485 or 4-20 mA Output
- ✦ Synchronised Time HH : MM -Display
- ✦ Built in Or Remote Sensor
- ✦ Slim Full SS Housing with 32 mm Depth
- ✦ AHU On/Off Status.

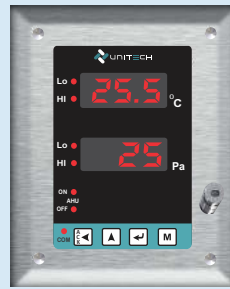
UT-14XX- 2 PRO Clean Room Monitor (LED)- RS 485, Ethernet, Wi-Fi & Built in Memory.



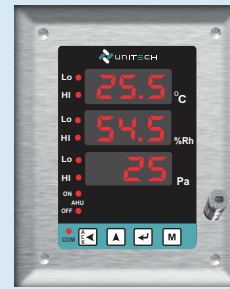
UT-1401-2 Diff. Pressure



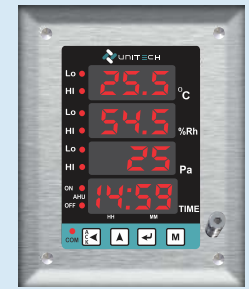
UT-1404-2 Temp.+ Rh



UT-1405-2 Temp. +DP



UT-1406-2- Temp.+RH+DP



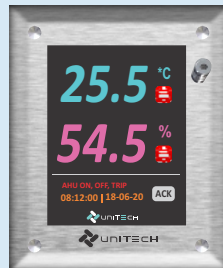
1407-2- Temp+RH+DP+Time

- ✦ LED Dis.: 0.56 inch
- ✦ Modbus RS-485 or Ethernet- TCP/IP
- ✦ Synchronised Time HH : MM -Display
- ✦ Built in Or Remote Sensor
- ✦ Wireless com. RF, Wi-Fi & Blue tooth
- ✦ Slim Full SS Housing with 32 mm depth
- ✦ AHU On/Off Status.
- ✦ Memory: 1 Lakhs Reading with Auto data back filling

UT-14XX- 3/4.5 Inch Touch LCD Clean Room Monitor Advance Model- RS 485, Ethernet, Wi-Fi & Built-IN Memory.



UT-1401-3,4- Diff. Pressure



UT-1404-3,4- Temp.+ Rh



UT-1405-3,4- Temp. +DP



UT-1406-3,4 Temp+RH+DP+Time

UT-1407-3,4 Temp+RH+DP+Time

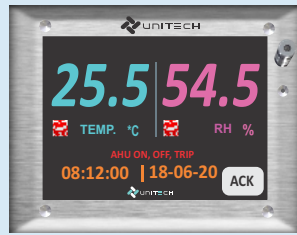
- ✦ Touch Colour LCD 3/ 4.5 inch
- ✦ Modbus RS-485 or Ethernet- TCP/IP
- ✦ Synchronised Time HH : MM -Display
- ✦ Built in Or Remote Sensor
- ✦ Wireless com. RF, Wi-Fi & Blue tooth
- ✦ Memory: Lakhs Reading with Auto data back filling
- ✦ AHU On/Off Status.
- ✦ Slim Full SS Housing with 32 mm depth
- ✦ Multi Touch Graphical Colour Industrial LCD display



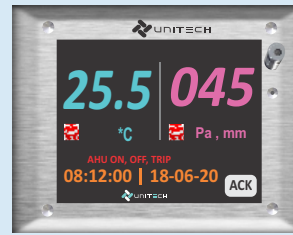
UT-14XX- 7 Inch Touch LCD clean Room Monitor Advance Model- RS 485, Ethernet, Wi-Fi & Built in Memory.



UT-1401-7 Diff. Pressure



UT-1404-7 Temp.+ Rh



UT-1405-7 Temp.+DP



UT-1406-7 Temp+RH+DP+Time  
UT-1407-7 Temp+RH+DP+Time



- ✦ Touch Colour LCD 7 inch
- ✦ Built in or Remote Sensor
- ✦ AHU On/Off Status.
- ✦ Modbus RS-485 or Ethernet- TCP/IP
- ✦ Wireless com. RF, Wi-Fi & Blue tooth
- ✦ Slim Full SS Housing with 32 mm depth
- ✦ Synchronised Time HH : MM -Display
- ✦ Memory: 1 Lakhs Reading with Auto data back filling
- ✦ Multi Touch Graphical Colour Industrial LCD display

UT-14XX- F - Clean Room Monitor Flameproof (LED, LCD) - Rs485, Ethernet, Wi-Fi & Built in Memory



UT-1401F- Diff. Pressure



UT-1404F- Temp.+ Rh



UT-1406F- Temp.+RH+DP



1407F- Temp+RH+DP+Time



- ✦ LED or LCD
- ✦ Built in or Remote Sensor
- ✦ AHU On/Off Status.
- ✦ Modbus RS-485 or Ethernet- TCP/IP
- ✦ Wireless com. RF, Wi-Fi & Blue tooth
- ✦ Slim Flameproof Housing with SS box all in with 65 mm depth
- ✦ Synchronised Time HH : MM -Display
- ✦ Memory: 1 Lakhs Reading with Auto data back filling

UT-23DP - Dual / Triple DP Monitor (AHU, HVAC Filter Status) Pre Filter, Fine Filter & HEPA Filter.



3DP- MS Wall Mounted



3DP- LCD Wall Mounted



2DP- MS Wall Mounted



2/3DP- SS Wall Mounted



- ✦ High Bright LED Or Touch Colour LCD Display.
- ✦ 2 , 3 DP Indicator With Integrals DP Sensor
- ✦ AHU On/Off Status.
- ✦ RS-485, Ethernet Modbus RTU Communication.
- ✦ In Built Buzzer and AHU On/Off Status Indication.
- ✦ Memory: 1 Lakhs Reading with Auto data back filling

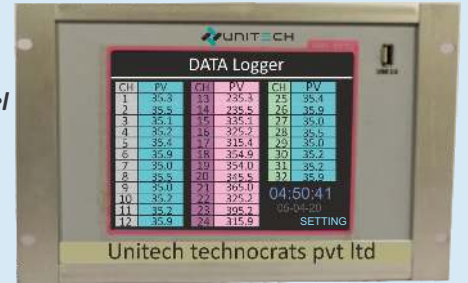
UT-10XX - Process Data Logger with Data Logging Software (Printing-Reporting-Tranding)



UT-1000- 8 / 16 channel  
Data Logger



UT-1000- 24 / 32 channel  
Data Logger



- ✦ 21 CFR Part 11 (Optional) None Editable file Format.
- ✦ PC Based Data Acquisition Software for Data Loge, Reporting & Trend.
- ✦ USB Port for Data Logging. Optional Blue tooth & RF Wireless(2 KM)
- ✦ Available Channel : 4 , 8 , 16 , 24 , 32- Touch Screen Multi Colours
- ✦ All Channel are Universal -RTD, Thermocouple, 0-1 /5/10 V DC, 0/4-20mA,
- ✦ Onboard 15K Reading per Channel Storage with Auto Data back Filling & Data Logging.

UT-1410- Synchronised Digital Clock - Master & Slave



MASTER CLOCK  
GPS / NTP / ETHERNET / WIRELESS(RF)



SLAVE CLOCK  
NTP / ETHERNET /RS485/ WIRELESS(RF)



MASTER CLOCK- FLAME PROOF  
GPS / NTP / ETHERNET / WIRELESS(RF)

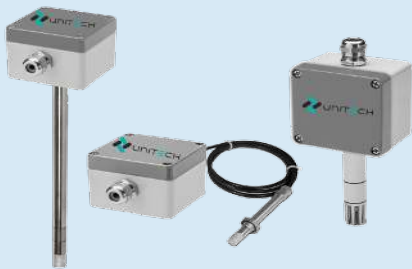
- ✦ The Master/Slave clocks finds application in processes where time synchronization is required.
- ✦ Display height available is 1"/ 2 "/ 4 " / 6 " with red color and time tick LED indication.
- ✦ The master time reference source :- GPS / NTP / Local Factory Server. With Built in RTC & battery backups.

GPS-WIRED MASTER SLAVE NETWORK

NTP / ETHERNET NETWORK (POE)

GPS-WIRELESS MASTER SLAVE NETWORK

UT-1403- Temperature + Humidity Transmitter & UT-1402 DP Transmitter & UT-1430-Air Velocity Transmitter.



UT-1403- Temp. + Humidity transmitters



Flame Proof



UT-1430- Air Velocity sensor



UT-1403- DP Transmitter

- ✦ Duct and Wall Mounted Transmitter
- ✦ On site Re-ranging & Programming Facility.
- ✦ Flameproof Model (Duct & Wall)
- ✦ True-stable Digital Sensor.- High Accuracy (Rh - 1.7 % & Temp 0.25 °C).
- ✦ Signal :4-20 mA, 0-10/5 V DC with RS-485 and Wireless RF Communication.
- ✦ Duct Mounted/ Wall Mounted & Flame proof.

# VARIANT PRODUCT SELECTION FOR EMS SYSTEMS



MODEL	Monitoring Parameter					Optional Input & Output				Memory	Display Type	Display Size	Sensor	Power Supply	
	Temp.	RH	DP	Time	Date	4-20 mA	RS-485	Ethernet	Wireless						
UT-1401-1	N	N	Y	N	N	Y	Y	Y	N	Y	LED	0.56"/ 1"	In- built	24 V DC / 230 V AC	
UT-1401-2	N	N	Y	Y*	N	Y	Y	Y	Y	Y	LED	0.56"	In- built	24 V DC / 230 V AC	
UT-1401-3/4	N	N	Y	Y	Y	Y	Y	Y	Y	Y	LCD	3" & 4.5"	In- built	24 V DC / 230 V AC	
UT-1401-7	N	N	Y	Y	Y	Y	Y	Y	Y	Y	LCD	7"	In- built	24 V DC / 230 V AC	
UT-1404-1	Y	Y	N	Y*	N	Y	Y	Y	N	Y	LED	0.56"/ 1"	In- built / Remote	24 V DC / 230 V AC	
UT-1404-2	Y	Y	N	Y*	N	Y	Y	Y	Y	Y	LED	0.56"	In- built / Remote	24 V DC / 230 V AC	
UT-1404-3/4	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	LCD	3" & 4.5"	In- built / Remote	24 V DC / 230 V AC	
UT-1404-7	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	LCD	7"	In- built / Remote	24 V DC / 230 V AC	
UT-1405-1	Y	N	Y	Y*	N	Y	Y	Y	N	N	LED	0.56"/ 1"	In- built / Remote	24 V DC / 230 V AC	
UT-1405-2	Y	N	Y	Y*	N	Y	Y	Y	Y	Y	LED	0.56"	In- built / Remote	24 V DC / 230 V AC	
UT-1405-3/4	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	LCD	3" & 4.5"	In- built / Remote	24 V DC / 230 V AC	
UT-1405-7	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	LCD	7"	In- built / Remote	24 V DC / 230 V AC	
UT-1406-1	Y	Y	Y	N	N	Y	Y	Y	N	N	LED	0.56"/ 1"	In- built / Remote	24 V DC / 230 V AC	
UT-1406-2	Y	Y	Y	N	N	Y	Y	Y	Y	Y	LED	0.56"	In- built / Remote	24 V DC / 230 V AC	
UT-1407-1	Y	Y	Y	Y	N	Y	Y	Y	N	N	LCD	3" & 4.5"	In- built / Remote	24 V DC / 230 V AC	
UT-1407-2	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	LCD	7"	In- built / Remote	24 V DC / 230 V AC	
UT-1407-3/4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	LED	0.56"/ 1"	In- built / Remote	24 V DC / 230 V AC	
UT-1407-7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	LED	0.56"	In- built / Remote	24 V DC / 230 V AC	
UT-1402	DP TRANSMITTER		Y	N	N	Y	Y	N	Y	N	N	N	In- built	24 V DC / 230 V AC	
UT-1403	Y	Y	Temp. + Rh Transmitter			Y	Y	N	Y	N	N	N	In- built	24 V DC / 230 V AC	
UT-23DP-LED	DP1	DP2	DP3	Filter Status		N	Y	Y	Y	Y	LCD	0.56"	In- built	24 V DC / 230 V AC	
UT-23DP-LCD	DP1	DP2	DP3	DP Indicator		N	Y	Y	Y	Y	LCD	3" & 4.5"	Remote	24 V DC / 230 V AC	
UT-1016	16 Channel Universal Data Logger					U	Y	Y	Y	Y	LCD	3.5"	Remote	24 V DC / 230 V AC	
UT-1032	32 Channel Universal Data Logger					U	Y	Y	Y	Y	LED	7"	In- built	24 V DC / 230 V AC	
UT-1430	Air Velocity Sensor					Y	N	N	N	N	N	N	N		24 V DC / 230 V AC

✦ \*- Time will be optional future for this display

✦ All Product are available in 230 v Ac Dc Aux. Power

✦ All product are available in flameproof model.

## OTHER CUSTOMISED PRODUCTS For EMS DISPLAY



Corridor Multi Parameter  
10 inch Touch display



SMART  
DATA LOGGER



Industrial PC (IPC)  
With LINUX SCADA



Power Junction Box  
24 V & Converter



Remote Alarm for  
Different Location



MASTER Module  
Wireless -RF



Different Comm.  
Converter's

**UNITECH- SOLUTION**

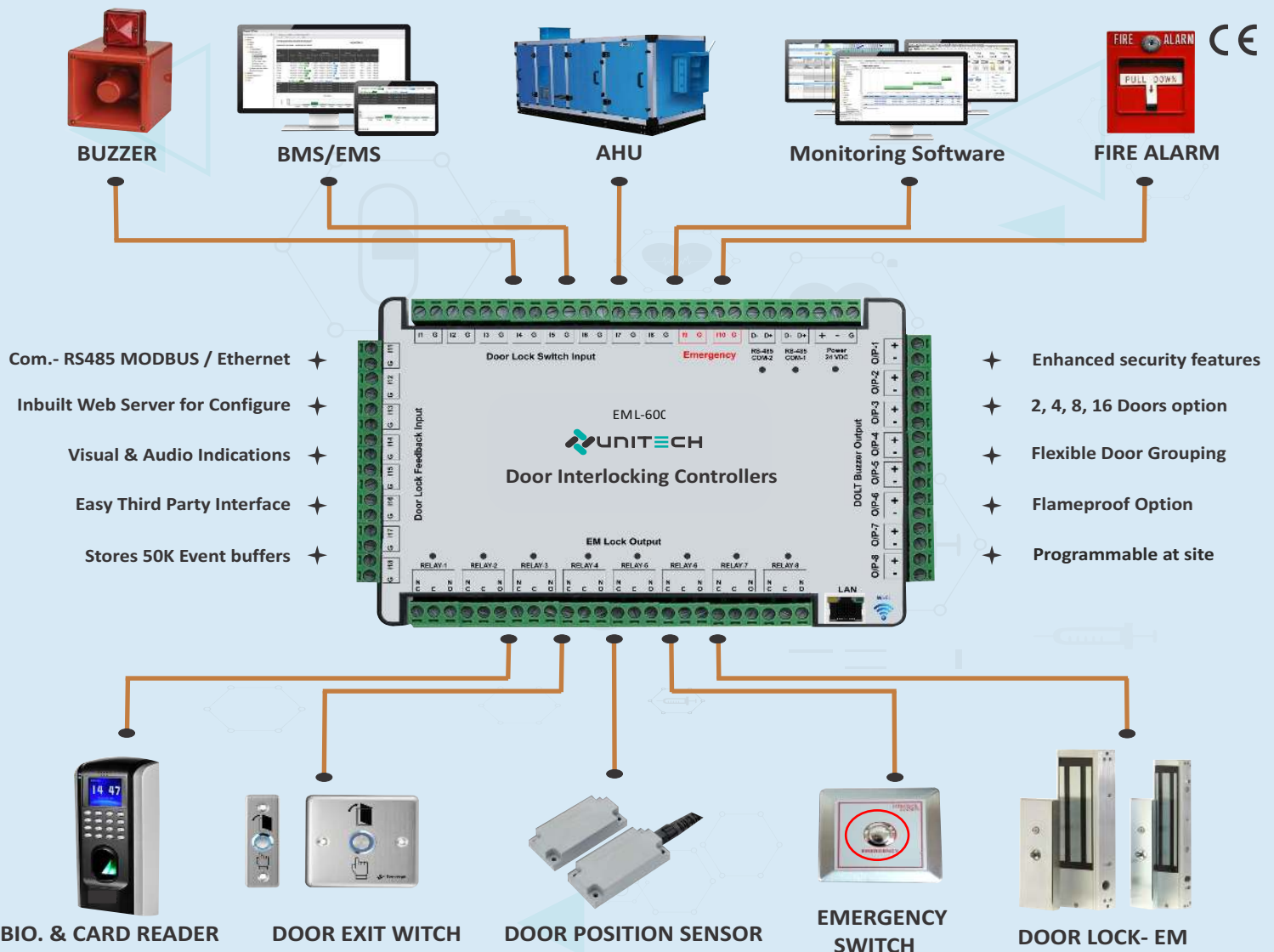
- ✦ Access Control System for Production/Admin/Lab with Restrictions as per US FDA Policy
- ✦ Door Interlocking System (DIS) for Clean Rooms etc,
- ✦ Door lock & Access Control centrist Software as per 21 CFR part 11 Completable.

**Introduction**

Door interlock system is used to prevent the simultaneous opening of Multiple doors. The system aids in minimizing the microbial, particulate contamination and helps maintaining pressure difference between two rooms. Research Laboratories wherein the security is of major concern as it is vulnerable to threats like product tampering this can be neutralized by restricting access of the unauthorized users in the secured premises.

**Key Features**

- ✦ Door Interlock for the Clean Rooms and other production facilities for Good Manufacturing Practices.
- ✦ Single Control can control 2,4 and 8 door systems And its go Maximum upto 16 doors with Cascade feature
- ✦ Dedicated ports for Emergency switches & Door position sensor
- ✦ Available in soft touch keyboard, contact less I/R reader, Biometric thumb reader or with access card reader.
- ✦ Access control measures to restrict movements of personnel across production facilities to prevent contamination.
- ✦ Biometric logical access for critical Pharma machinery integration possible.
- ✦ Enterprise level in-house developed windows or Cloud based software with useful Reports & Analysis for The management.
- ✦ Special Product for Data Centre and Server Room. with Audio & Visual indications & Flameproof options available





DOMESTIC PHARMA CLIENT

 6 Location in India	 7 Location in India	 5 Location in India	 8 Location in India		 WELLNESS SINCE 1930
 2 Location in India	 2 Location in India			 3 Location in India	 caring for life
 Serving Life					

HEALTH & HOSPITAL CLIENT

 Caring Redefined		 A Durgam-Chokkhi		 adding life to years	
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HVAC / BMS SYSTEMS INTEGRATOR -OEM CLIENT

			 Indian & Saudi Arabia		
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INTERNATIONAL PHARMA CLIENT

 Dubai	 Romania	 UAE	 USA	 USA	 Philippines
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 160 +	 550 +	 110 +	 15000 +	 350 +
MANUFACTURED PRODUCT	HAPPY CUSTOMERS	INSTALLED EMS PROJECT ACROSS INDIA.	CLEAN ROOM DISPLAY SALE IN LAST TWO YEARS	PROJECTS EXPERIENCE

We have 35 + Pharma Consultant Approvals & Dealing with 50 + HVAC & Clean Room Contractor.



CRISIL RATED ORGANIZATION



NABL CALIBRATION LAB



CE CERTIFIED PRODUCT



AN ISO-9001:2015 ORGANIZATION