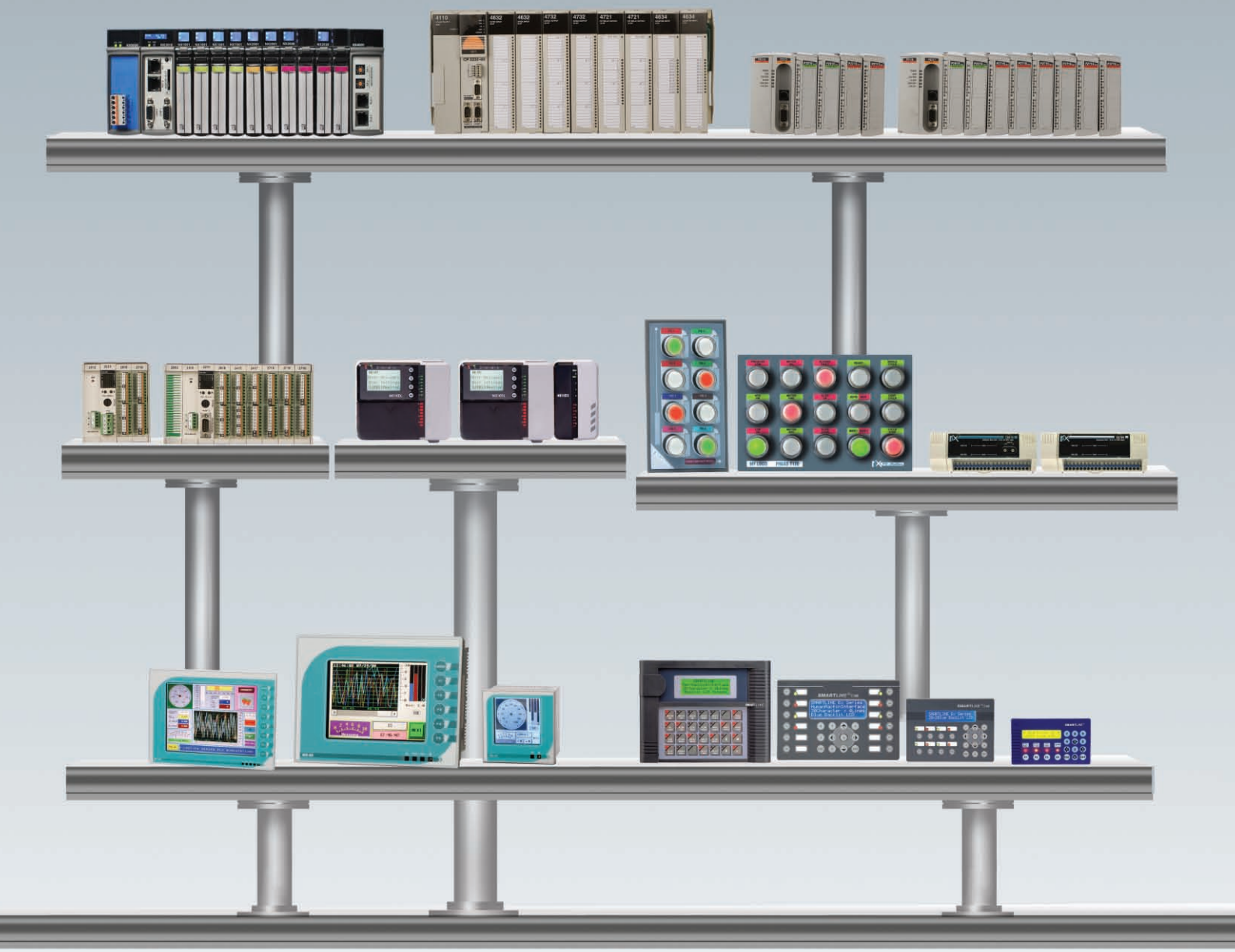
NEXGENIE
PRODUCT BASKET



World Class Products and Solutions

PLC • RIO • HMI

www.MitsubishiElectric.in

New Compact Genius PLC

Keeping in tandem with the ever-changing market demands, Mitsubishi Electric India introduces Nexgenie 1000 PLC with ultra-fast CPU. With a technologically compact design, it is devised for exceptional performance and hassle free functionality. Embedded with innumerable features, it is equipped to address a wide range of industrial applications.

Product Certification & Marking CE

Power Packed Features

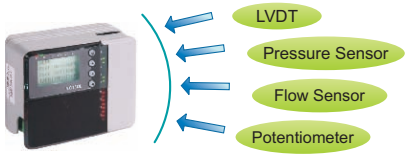
Compact – Expandable – Flexible

- Compact Base Unit packed with 14/16 feature rich I/O points
- Base Variant Option with DI + AI + HSC Input
- Expandable up to 80 I/O Points with 4 Expansion Modules
- Models with or without Visual Access Window (VAW)

Visual Access Window (VAW)

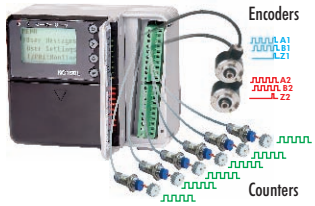
- Bright Graphics LCD (128x64 Pixels) with White Backlit
- 64 User Programmable Screens
- Four Keys for Navigation and Modification
- 4 levels of Password Protected Access
- System Status and I/Q/M Monitoring
- Screen Definition via user friendly Program Configuration Utility

Configurable Analog Input Option



- Analog Control is made simple with built-in Configurable Analog Inputs Option
- It supports: - AI (0-10 VDC) / DI (24 VDC)- 4 Inputs and
  - HSC (4 HSC or 1 ABZ Encoder) / DI (24 VDC) - 4 Inputs

High Speed Counters



- Various Configurable HSC Modes
- Up to 6 Single Phase Counters -Software Direction Control
- Up to 2 Quadrature Encoder -(10 KHz) Interfaces
- Interrupt Events with HSC Compare, Zero Crossing etc.

Connectivity via 2 Serial Ports

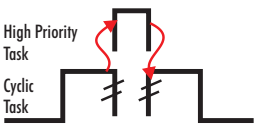
Consolidated Storage Space

- Memory Application: 128 Kb, Data: 28 Kb
- Storage of complete Project with Comments on CPU
- Alternate Project backup on External Cassette
- Password Protection for Application Codes

Real Time Clock (RTC) Based Control

- RTC based Arithmetic Calculations
- Time Channel Function with Daily/ Weekly Programs

Pre-emptive Multitasking



- Dynamic handling of High Priority Interrupt Events
- On-the-fly Event Enable, Disable, POU Assignment Control via Application

User Friendly Features

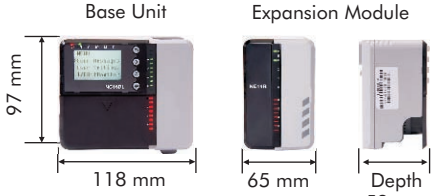

DIN Rail Mounting


I/O Connector Extractor


Removable I/O Terminals


Diagnostic LEDs on Base Unit & Expansion Modules

Dimensional Details



Global Standard Windows based IEC61131-3 Compatible Programming Software Package

- Single Uniform Programming Platform

Wide Choice of IEC Programming Languages

- LD: Ladder • ST: Structured Text • SFC: Sequential Function Chart
- IL: Instruction List • CFC: Continuous Function Chart • FBD: Function Block Diagram

Product Specifications*

Models		NG16DL	NG16DN	NG16ADL	NG14RL	NG14RN
Input Power		24 VDC, 9.6 Watts Max. inclusive of expansion				
CPU Speed		0.3 μs for Bool Instruction, 0.6 μs for Word Instruction				
Application Program Memory		128 K bytes Flash				
Source Code Memory		1 MB flash can Store Project File with Symbolic Names, Comments, Visualisation Screens				
Marker Memory		32 K Points (4 K bytes)				
Data Memory		24 K bytes				
Retained Memory		Stored in FRAM, Battery Free Operation, 300 Bytes of Marker Memory by Default, 700 Bytes of Data Memory as per User Declaration				
Memory Cassette		Optional - Available for Application Program Backup, Transport				
		User can Transfer Application Program to CPU through Serial Port1 without any need for Programming Software				
I/O Capacity (Base + Expansion)		14 with Base Unit (can be expanded up to 40 Inputs and 40 Outputs with expansion units)				
Expansions		4 Maximum				
Digital / Analog Inputs		8 Points Isolated, 24 VDC Sink/Source in group of 4 Input Points		4 Points, 24 VDC Sink/ Source, with Optical Isolation +(4 Points, 24 VDC Sink only **or** 4 Ch Analog Input, 0 to 10 VDC, 10-Bit Resolution, Non-isolated)	8 Points, 24 VDC Sink/Source in group of 4 Input Points	
Digital Outputs		8 pt Transistor, 300 mA per Output, Source Type, Short Circuit Protection			6 pt Relay,500 mA at 230 VAC/30 VDC	
High Speed Inputs		Up to 6		Up to 4	Up to 6	
High Speed Input Frequency		4 Ch-20 KHz,		3 Ch-20 KHz,	4 Ch-20 KHz,	
		2 Ch-5 KHz		1 Ch-5 KHz	2 Ch-5 KHz	
Encoder ABZ Interface		Up to 2, 10 KHz		1, 10 KHz	Up to 2, 10 KHz	
Time Period Measurement		With 1 μs Resolution Configurable for all High Speed Inputs individually				
RTC		Built-in, Backed Up by Super Capacitor for 2 Weeks Nominal, no Serviceable Battery				
Serial Ports		Port1: RS232 / 485 / Modem interface / Programming Port Port2: RS232 / 422 / 485 / Modem Interface				
Serial Protocol FBs		1. Modbus RTU Slave / Master 2. Various VFD / Servo Drive protocols (example, Mitsubishi Frequrol FB) 3. Remote Monitoring and Control via GSM/ GPRS Network 4. Modem Interface, Open Protocol Communication FBs				
Visual Access Window (VAW)		Embedded	No	Embedded		No
Interrupts	Periodic	1, with 1ms resolution, User settable duration from 1 to 2500ms				
	HSC compare	Up to 4		Up to 3	Up to 4	
	PTO Compare and done	Up to 3			NA	
	Input (Rising and falling edge)	Up to 6		Up to 4	Up to 6	
PID		Software FB, Unlimited Loops (Limited only by Program and Data Memory)				
Programming Software		IEC 61131-3 Compatible Windows Based Programming Software				
Programming Languages		6 Languages: LD, IL, FBD, SFC, CFC, ST				

* Note: Due to continual development, specifications & features are subject to change.

Product Code Details

	Ordering Code	Ordering Information
Base Units 24 VDC Powered	NG16DL	Base Unit with VAW – 8 pt 24 VDC Inputs (HSC 20 KHz) & 8 pt 300 mA, 24 VDC Outputs
	NG14RL	Base Unit with VAW – 8 pt 24 VDC Inputs (HSC 20 KHz) & 6 pt 500 mA Relay Outputs
	NG16DN	PLC Base Unit without VAW – 8 pt 24 VDC Inputs (HSC - 20 KHz) & 8 pt 300 mA, 24 VDC Outputs
	NG14RN	Base Unit without VAW – 8 pt 24 VDC Inputs (HSC 20 KHz) & 6 pt 500 mA Relay Outputs
	NG16ADL	Base Unit with VAW – 4 Points, 24 VDC Inputs (HSC 20 KHz) + (4 Points, 24 VDC Sink only 0r 4 Ch Analog Input, 0 to 10 VDC, 10-Bit Resolution, Non-isolated) and 8 pt 300 mA, 24 VDC Outputs
Expansion Modules	NE16DX	Expansion Module - 8 pt 24 VDC Inputs & 8 pt 300 mA, 24 VDC Outputs
	NE14RX	Expansion Module - 8 pt 24 VDC Inputs & 6 pt 500 mA Relay Outputs
	NE 08IX	Expansion Module - 8 pt 24 VDC Inputs
	NE08DX	Expansion Module - 8 pt 300 mA 24 VDC Outputs
	NE06RX	Expansion Module - 6 pt 500 mA Relay Outputs
	NE02AX	Expansion Module - 2 Channel Analog Outputs (Voltage / Current), 12 Bit Resolution
	NE40UX	Expansion Module - 4 Channel Universal Analog Inputs (V/I/TC/RTD), 16 Bit Resolution
	NE42UX	Expansion Module - 4 Channel Universal Analog Inputs (V/I/TC/RTD), 16 Bit Resolution & 2 Channel Analog Outputs (0-10 VDC), 16 Bit Resolution
Accessories & Spares	RCV 0202	2 Channel PT100 to Voltage Converter
	1910	Programming Cable for Nexgenie 1000 PLC Series - Length = 3 mtrs.
	1911	Pre-wired Cable - with L Type D Connector - Length = 300 mm. Used for Interfacing 3rd Party Devices via Serial Ports
	1912	Serial Link Cable - with Loose Conductors - Length = 3 mtrs. Used for Interfacing 3rd Party Devices via Serial Ports
	9904	Memory Cassette - 256 KB. Used for Copying and Downloading PLC Projects
	9920	IEC 61131-3 Compatible Programming Software
	1951	3 Pin Terminal Connector for PSU
	1952	10 Pin I/O Connector for I/Os (Screw Type)
	1955	Terminating Resistor Plug. To terminate Base or Expansion Module on its Right Side
	9984	Screw Driver Taparia 932. Used for I/O Wiring Connection

A Gamut of Applications

FFS

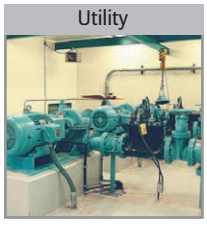
Screen Printing

Press

Textile Machine

Remote Control Station Monitoring

Utility



NEXGENIE 2000 Plus PLC

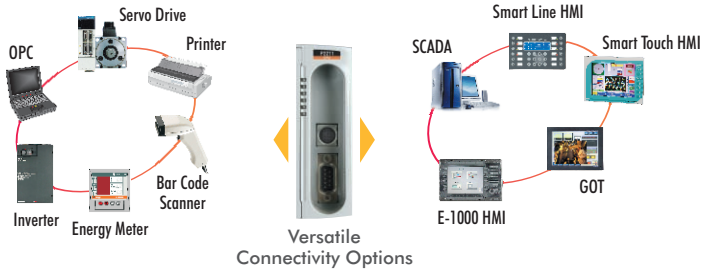
Micro Modular PLC

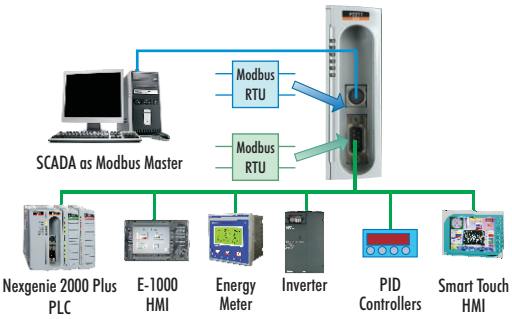
Distinctly the plus advantage of Nexgenie 2000 Plus suitable up to 256 I/O points defines its remarkable ability, power and intelligence to rev up your machine or process beyond imagination. This micro modular PLC comes to you with significantly enhanced ergonomics, simplicity, convenience and aesthetic features. They are all smartly packaged in design created with proven expertise of international product designers.

Product Certification & Marking CE

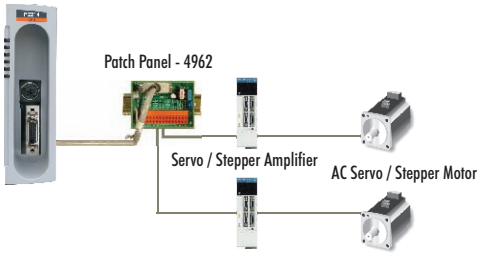
Power Packed Features

CPU with 2 Serial Ports - P 2211





CPU with Built in Motion Control (Independent Axis) - P 2214



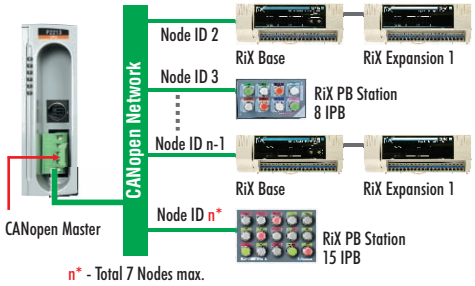
HSC

- 2 Encoder Interface - 100 KHz, (A, B, Z)
- 6 Single Phase Counter Software Direction Control 5 KHz

PTO

- 2 Channels: 100 KHz
- Output type: Differential, 5 VDC

CPU with CANopen Port - P2213 A



Simplicity

Easy Mounting of I/O Module

Easy Removal of I/O Wiring Arm

Easy Nomenclature
- I/O Legends
- I/O Wiring Diagram

Easy Installation
- DIN Rail Mounting

Convenience

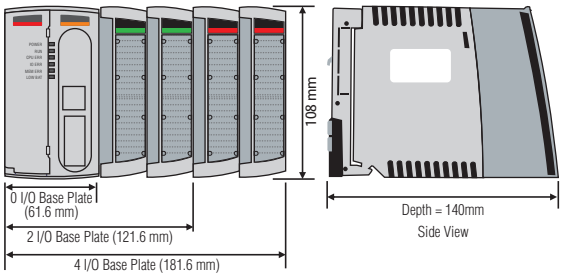
Easy CPU Diagnostics
- CPU Status LED Indications

Easy I/O Diagnostics
- Input Status LED Indications
- Output Status LED Indications

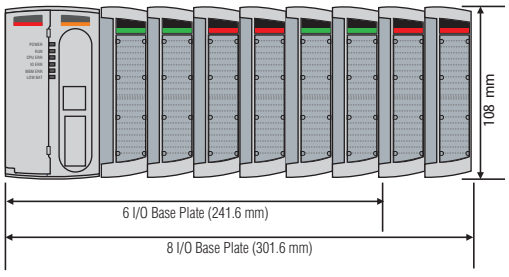
Easy Identification
- Via I/O Legends

Dimensional Details

2113 -5 V, 1.5 A PSU



2115 -5 V, 3 A PSU



Global Standard Windows based IEC61131-3 Compatible Programming Software Package

- Single Uniform Programming Platform

Wide Choice of IEC Programming Languages

- LD: Ladder • ST: Structured Text • SFC: Sequential Function Chart
- IL: Instruction List • CFC: Continuous Function Chart • FBD: Function Block Diagram

Product Specifications

Number of Inputs and Outputs	256 Inputs / Outputs (Local + Remote)
Application Memory	128 Kbytes
Source Code Memory	512 Kbytes
Marker Memory	8 Kbytes
File Markers	48 Kbytes
Data Memory	32 Kbytes
Real Time Clock	Present
Timer / Counter	Unlimited*
Battery Type (Life = 3 Years)	3.6 V DC, Ni-MH, 40 mAh Rechargeable
Instruction Execution Speed	0.6-0.8 μS: BOOL Operation < 1.2 μS: WORD

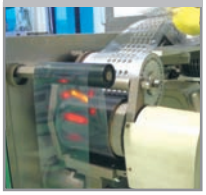
(*Limited by available Data Memory)

Product Code Details

	Ordering Code	Ordering Information
CPU	P 2210	CPU with One Serial Port (PG)
	P 2211	CPU with Two Serial Ports (PG and Aux.)
	P 2213 A	CPU with One Serial Port (PG) and One CANopen Port
	P 2214	*CPU with 2 HSC (100 KHz) and 2 PTO (100 KHz)
Power Supply	P 2113	85 to 260 VAC Universal Input Supply, 1.5 Amp at 5 VDC Output
	P 2115	85 to 260 VAC Universal Input Supply, 3 Amp at 5 VDC Output
	P 2112	24 VDC Input Supply, 1.5 Amp at 5 VDC Output
Base Plates	P 2912	2 I/O Base Plate with 1.5 A PSU + CPU Slots
	P 2914	4 I/O Base Plate with 1.5 A PSU + CPU Slots
	P 2916	6 I/O Base Plate with AC, 3 A PSU + CPU Slots
	P 2918	8 I/O Base Plate with AC, 3 A PSU + CPU Slots
Input/Output Modules	P 2616	16 pt. 24 VDC Inputs*
	P 2712	12 pt. Relay Outputs, 500 mA per Point
	P 2716	16 pt. 24 VDC Outputs, 250 mA per Point
	P 2708	8 pt. 24 VDC Outputs, 1.5 Amps per Point, 4 Amps (Group of 4 Output Points)
	* Sink/Source Selectable Input	
Special Modules	P 2415	8 pt. 24 VDC Inputs* (Inclusive of HSC 1 @ 20 KHz + HSC 2 @ 2 KHz Input & Frequency Measurement @ 2 KHz at Input 2) + 6pt. Relay @ 500 mA per Point (8 DI + 6 RO)
	P 2417	8 pt. 24 VDC Inputs* (Inclusive of HSC 1 @ 20 KHz + HSC 2 @ 2 KHz Inputs & Frequency Measurement @ 2KHz at Input 2) + 8pt. 24 VDC Outputs, 250 mA per point (8 DI + 8 DO)
	P 2304	4 Ch., 16 Bit Analog Inputs (Voltage / Current)
	P 2332	2 Ch., 12 Bit Analog Outputs (Voltage / Current)
	P 2364	2 Ch., 16 Bit Analog Inputs (Voltage / Current) + 2 Ch. 12 Bit Analog Outputs (Voltage)
	P 2310	4 Ch., Thermocouple/mV Inputs
	P 2343	4 Ch., Thermocouple / mV Inputs + 3 Ch., 12 Bit Analog Outputs (Voltage)
	P 2511	2 Port, Serial Communication Module (RS232/RS422/RS485)
	* Sink/Source Selectable Input	
Programming Package	9920	IEC 61131-3 Compatible Programming Software
	2910	Programming Cable 9 pin Mini DIN to 9 pin D-type
	2911	9 pin Mini DIN to 9 pin D Connector Conversion Cable
	9904	Memory Cassette - 256KB. Used for Copying and Downloading PLC Projects
Ethernet Adaptors	XeA 6020	Ethernet Adaptor with Modbus Protocol (Modbus RTU/ACII to modbus TCP/IP) Suitable for SCADA Interface Applications
	XeA 6021	Ethernet Adaptor with Transparent Protocol suitable for Programming
Accessories	4962	Patch Panel (2HSC and 2 RS422 Type PTO)
	2944	with Interface Cable for P 2214 0.5 mtr
	2945	with Interface Cable for P 2214 1.0 mtr

A Gamut of Applications

Pharma



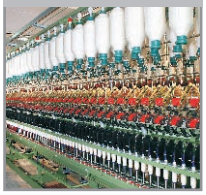
Plastics-Blow Moulding

Packaging

Machine Tools

Tele Communication

Textile



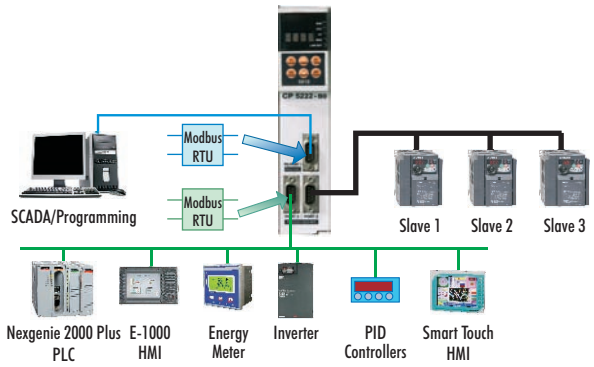
NEXGENIE 5000 PLC

Advanced Modular PLC

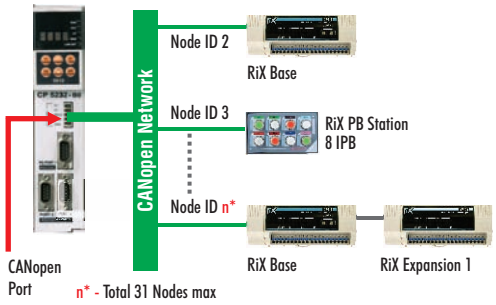
Nexgenie 5000 PLC is suitable up to 2048 I/O points. It supports all popular platforms like EtherNet, Modbus & CANopen. It supports high density Digital, Analog & Special I/O Modules.

Power Packed Features

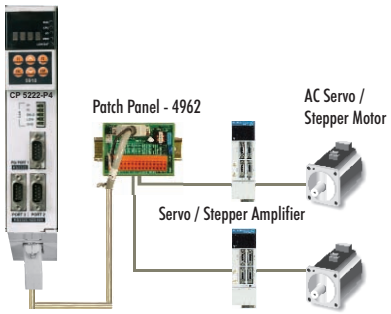
CPU Up to 3 Serial Ports - 522X Series



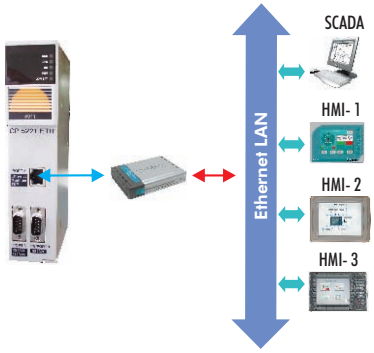
CPU with CANopen Port - 523X Series



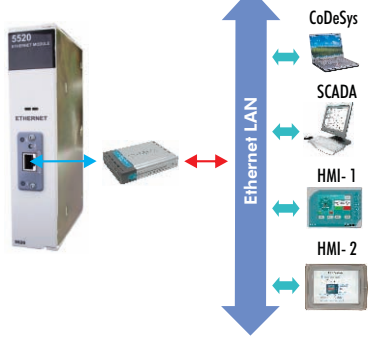
CPU with Built in Motion Control (Independent Axis) - 522X/523X - P4



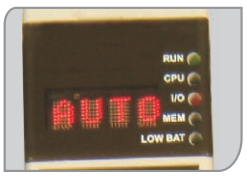
CP 5221 ETH Ethernet CPU



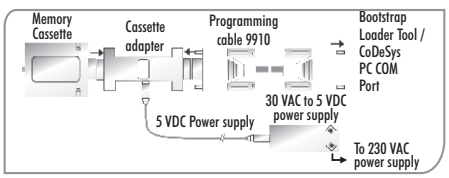
5520 Ethernet Module (Modbus TCP)



User Friendly Features



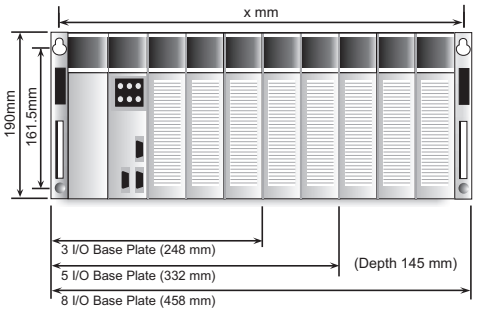
Plug-in Keyboard Display Unit (Optional)



Set Up to Download the Program to Memory Cassette

Compact & Handy Memory Cassette

Dimensional Details



(Base plate and Expansion plate are of the same size)

Base & Expansion Plate : Pin Hole to Pin Hole Length

Plate	3 I/O	5 I/O	8 I/O
x mm	230 mm	314 mm	440 mm

Global standard Windows based IEC61131-3 Compatible Programming Software Package

- Single Uniform Programming Platform

Wide Choice of IEC Programming Languages

- LD: Ladder • ST: Structured Text • SFC: Sequential Function Chart
- IL: Instruction List • CFC: Continuous Function Chart • FBD: Function Block Diagram

Product Specifications

Attributes		Specifications	
		CPUs 522x	CPUs 523x
I/O Capacity		1024	2048
Execution Time	Boolean	0.6 µSec	0.4 to 0.6 µSec
	Word (Move)	1.2 µSec	1.2 µSec
Application Memory		256 KB	320 KB
Memory Configuration (RAM)	Data (Retainable)	64 KB	
	Marker (Retainable)	32 KB	
	File Marker (Super Retainable)	64 KB	
Communication Ports	Port 1	RS 232C	
	Port 2	RS 232C / RS 422 / 485 (Identical Ports)	
	Port 3		
	CANopen Port	Applicable for 523x CPU Varients	
Battery Back-up	Type	Ni-MH, 3.6 V DC, 70mAH	
	Re-Chargeable	Yes	
Ambient Temperature		0 - 55°C	
Relative Humidity		5 - 95 %	

Product Code Details

	Ordering Code	Ordering Information
CPU	CP 5220-B0	Basic CPU with 1 Serial/PG Port
	CP 5221-B0	Basic CPU with 1 Serial/PG Port and 1 AUX* Port
	CP 5221-P4	CPU with 1 Serial/PG Port and 1 AUX* Port & 2 HSC (100 KHz) +2PTO (100 KHz) Port
	CP 5222-B0	Basic CPU with 1 Serial/PG Port and 2 AUX* Ports
	CP 5222-P4	CPU with 1 Serial/PG Port and 2 AUX* Ports & 2 HSC (100 KHz)+2 PTO (100 KHz) Port
	CP 5221-ETH	Basic CPU with 1 Serial/PG Port + 1 Ethernet Port + 1 AUX* Port
	CP 5230A-B0	Basic CPU with 1 Serial/PG Port + 1 CANopen Port
	CP 5232A-B0	Basic CPU with 1 Serial/PG Port + 2 AUX* Ports + 1 CANopen Port
	CP 5232A-P4	Basic CPU with 1 Serial/PG Port + 2 AUX* Ports + 1 CANopen Port & 2 HSC (100 KHz) + 2 PTO (100 KHz) Port
Accessories CPU 522x-P4/ CP 523x-P4	4960	Patch Panel, 2 Ch.,100 KHz Max. HSC & 2 Ch.,5 KHz Max. PNP Type PTO
	4962	Patch Panel, 2 Ch. HSC,100 KHz Max. & 2 Ch.,100 KHz RS-422 Type PTO
	4944	Interface Cable (0.5 Meter Length)
	4945	Interface Cable (1 Meter Length)
	4964	Patch Panel, 2 HSC & 2 Sink/Source PTO
Power Supply Module	4110	PSU 220 V AC, 5 V DC - 5 A, 12 V DC - 0.5 A
	4112	PSU 24 V DC, 5 V DC - 5 A, 12 V DC - 0.5 A
Digital I/O Modules	4433	16 pt. 24 VDC Inputs, Sink/Source Selectable, 16 pt. 24 VDC Outputs @ 250 mA per point with Short Circuit Protection, Source type
	4616	16 pt. 24 VDC Inputs, Sink/Source Selectable
	4617	16 pt. 110/220 VAC Inputs
	4632	32 pt. 24 VDC Inputs, Sink/Source Selectable
	4711	8 pt. Triac Outputs, 110/220 VAC @ 1.5 A per point with Fuse Protection
	4732	32 pt. 24 VDC Outputs @ 200 mA per point with Short Circuit Protection, Source Type
	4716	16 pt. 24 VDC Outputs @ 1.5 A per point with Short Circuit Protection, Source Type
	4721	16 pt. Relay Outputs (Potential Free) 24-250 VAC @ 750 mA per point
	4424	16 pt. 24 VDC Inputs, Sink/Source Selectable, 8 Relay Outputs (Potential Free) 24-250 V AC @ 750 mA per point
	4425	16 pt. 24 VDC Inputs, Sink/Source Selectable, 8 pt. 24 VDC outputs @ 1.5 A per point, Short Circuit Protection, Source Type
Analog I/O Modules	4309	8 Channel, 16 Bit Analog Inputs (Voltage/Current)
	4332	2 Channel, 12 Bit, Isolated Outputs (Voltage/Current)
	4334	4 Channel, 16 Bit, Non-Isolated Outputs (Voltage)
	4335	4 Channel,12 Bit, Isolated Outputs (Voltage/Current)
	4366A	4 Channel, High Speed, Non-isolated, 16 Bit Analog Inputs (Voltage/Current) & 2 Channel, Non-isolated, 12 Bit, Analog Outputs (Voltage)
Special Modules	4633	16 Channels, Multifunction Inputs, Sink/Source Selectable
	4634A	4 Channel Encoder interface
	4310	8 Channel, 16 Bit, Thermocouple Inputs, For Interfacing J,K,T,E,N,R,S,B type of Thermocouples
	4311A	8 Channel, 16 Bit, RTD 850°C / RTD 140°C Interface Analog Inputs
	5520	Ethernet Module (Modbus / TCP - 100 Mbps)
Terminal Blocks	4908	Terminal Block - 20 Pin
	4909	Terminal Block - 38 Pin
Expansion Cable	4940	0.5 meter
	4941	1 meter
Accessories	5910	Pluggable keyboard display unit
	9910	PLC Programming Cable

* RS232 / RS422 / RS485

	Ordering Code	Ordering Information
Base plates	4939	3 I/0 with Expansion Connector
	4938	5 I/0 with Expansion Connector
	4937	8 I/0 with Expansion Connector

	Ordering Code	Ordering Information
Expansion Plates	4936	3 I/0 without Slot for Aux Power Supply
	4931	3 I/0 with Slot for Aux Power Supply
	4933	5 I/0 with Slot for Aux Power Supply
	4907	8 I/0 with Slot for Aux Power Supply

Coming Soon

NEXGENIE 7000 PLC

The Power Packed Programmable Logic Controller

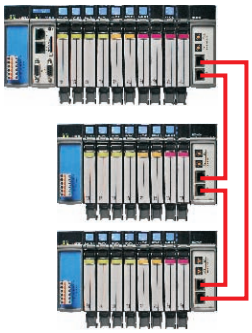
This high performance, ultra-fast PLC is equipped to address medium to large I/O applications for Factories, Process Industries & Infrastructure Automation.

Power Packed Features

Powerful CPU

- 32 bit Power PC Processor
  - 6 nano Sec. for BOOL / BYTE / WORD / DWORD instruction
  - 100 ~ 300 nano Sec. for floating point arithmetic
- Preemptive Multi-tasking
- Upto 2 Ethernet ports
- Expandable up to 8 racks
- 2 Serial Ports
  - Com 1: RS232 / 485
  - Com 2: RS422 / 485 isolated
  - Modbus RTU (Master / Slave)
- Application Program Memory: 8 MB
- File Memory: 32 MB
- Web Page Memory: 32 MB
- Data Memory: 6 MB
- Add on SD Memory: up to 32 GB
- Real Time Clock (RTC)

Flexible & Expandable

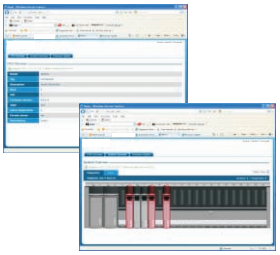


- I/O capacity up to 8,000 bytes
- 100 Mbps backplane bus
- Flexible local and remote rack configuration
- Optional expansion cable and power supply redundancy
- Economical CAT-5 expansion cable

Wide Choice of Communication Options

- Modbus TCP
- Profibus DP
- EtherCAT Master
- Modbus RTU Master / Slave
- SMTP, SNTP, SNMP
- GSM, GPRS, GPS

Built-in Web Server

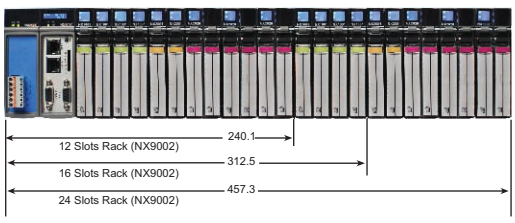


- Built-in web server
- Pre-designed system status and diagnostic web pages

Dimension Details

Base & Expansion Rack

Ordering Code	Ordering Information	Dimension (WxHxD) mm
NX9001	12 I/O Slots Rack	240 x 120 x 19
NX9002	16 I/O Slots Rack	312 x 120 x 19
NX9003	24 I/O Slots Rack	458 x 120 x 19



Global standard Windows based IEC61131-3 Compatible Programming Software Package

- Programming in 6 Languages:
  - Ladder Diagram, Function Block Diagram, Sequential Function Chart, Continuous Function Chart, Instruction List and Structured Text
- New Object Oriented Programming methods
- Drag and Drop System Configuration
- Function Block Library Management
- Debugging with On-line Power Flow, Watch List, Graphical Visualisation, Web Visualisation
- Non-volatile Memory to register & store Diagnosis, Programming Events, Commands & Failures

High Performance CPU

Attributes		Specifications	
		NX 3010	NX3020
I/O capacity		4 KByte	8 KByte
Execution Time		6 nano Sec. for BOOL/WORD/DWORD instruction,100~300 nano Sec. for floating point arithmetic	
Memory Configuration	Application Memory (Flash)	4 MByte	8 MByte
	File Memory (Flash)	16 MByte	32 MByte
	Data Memory	3 MByte	6 MByte
	Data (Retainable + Persistent)	32 KByte + 16 KByte	48 KByte + 32 KByte
	Web Page Memory	32 MByte	32 MByte
	Application Program Source Code	8 MByte	64 MByte
Backup Memory		Up to 32 GB SD card for application backup and data logging	
Expansion Racks Supported		8 racks	8 racks
Diagnostic Tools	Keys	- Diagnostics P.B. for navigation through system menu and viewing diagnostics messages - Button on the front panel to remove the memory card safely	
	Graphical LCD	- For System status and I/O Diagnostics	
Ethernet Ports	NET 1, NET 2	10/100 Base-TX, RJ 45 connector	
Serial Ports	COM 1	RS-232 / 485, DB9 female connector	
	COM 2	RS-422 / 485, DB9 female connector, Isolated	
Task Types		Freewheeling (Continuous), Cyclic (Periodic), Software Interrupt Events	
Online Programming		Yes	
Real Time Clock (RTC)		Yes, backed-up by Super Capacitor for 15 days	

Nexgenie 7000 Digital I/O Modules

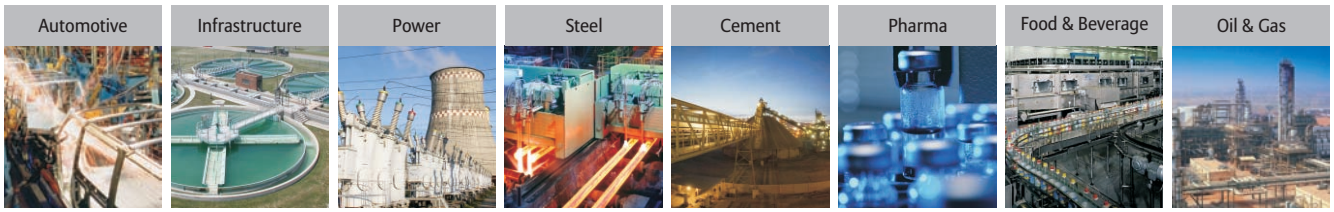
Ordering Code	NX1001	NX1005	NX2001	NX2020
Inputs	16 pt, 24 VDC, Sink/ Source inputs	8 pt, 24 VDC, Sink/ Source inputs	-	-
Outputs	-	8 pt, 24 VDC, 500 mA Transistor, source type	16 pt, 24 VDC, 500 mA Transistor, source type	16 Pt. 500 mA Relay Outputs
Isolation	Yes, channel to channel, Optical			Yes, channel to channel, Galvanic
Back Plane Rack Utilization	1 Slot	1 Slot	1 Slot	2 Slots
High Speed Counter	Input 00 (20 KHz), Input 01 (2 KHz)			--
Period Measurement	Input 02 (2 KHz), 1 μs resolution			--
Pulse Catch	Configurable for 8 inputs, Min. 500 μs pulse width			--
Interrupt	Configurable for Input 00		-	-
I/O Connector	Single Removable, 20 pin, Push type terminals, 3.81mm pitch			Two Removable, 10 pin, Push type terminals, 7.5mm pitch
Status Indication & Diagnosis	Special Character LCD for I/O indications and diagnostic indications			
Hot Swapping	Yes			

Nexgenie 7000 Analog I/O Modules

Ordering Code	NX6000	NX6100
No. of Channels	8, differential, non-isolated	4, non-isolated
Input types	0-20 mA, 4-20 mA, ± 20 mA, 0 to 10 VDC, ± 10 VDC	-
Output types	-	0-20 mA, 4-20 mA,0 to 10 VDC, ± 10 VDC
Conversion type	Sigma Delta	R-2R ladder
Resolution	16 bit	16 bit
Accuracy	± 0.1% of full scale	± 0.1% of full scale
Channel to Channel isolation	No	
Channel to internal Circuit isolation	Capacitive isolation	
Reverse polarity protection for external supply	-	Yes
Over Voltage protection	Up to ± 30 VDC	
Back plane rack utilization	1 slot	1 slot
Input impedance	- 135 Ohms for current input - >1 MOhms for voltage input	-
Input Filter	- 50 Hz/ 60 Hz Common Mode Noise rejection filter - User-configurable Sampling Rate: 10 Hz, 50 Hz, 60 Hz, 400 Hz, 1200 Hz	-
Conversion time	2 ms to 200 ms per Channel (as per Sampling Rate)	20 μSec for all 4 channels
Max. Output load	-	Current output:<600 Ohm, Voltage output:>1 k Ohms
External Power	-	24 VDC, ± 15%
I/O Connector	Single, Removable, 20 Pin, 3.81 mm pitch, Push-type terminals	
Status indication & Diagnosis	Special character LCD with I/O indications and diagnostic indications	
Hot Swapping	Yes	

*Above specifications are subject to change without notice.

A Gamut of Applications



Setting a New Trend in Remote I/O Solution

Remote I/O System

Mitsubishi Electric India introduces RiX Series Remote I/O Units based on CANopen / DeviceNet / Modbus RTU Fieldbus technology.

RiX Remote I/O Units are designed to be mounted near field elements (e.g. in Junction Boxes & Push Button Panels) for Individual I/O Connection.

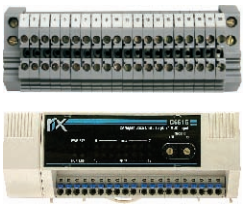
Highlights

- Auto Network Baud Rate detected by RiX Base Units
- Programmable I/O Unit
- Replacement of the Faulty Unit without disturbing the Live Network
- I/O Error Indication on CPU if Expansion Unit gets disconnected
- Diagnostics Status LEDs on each Base Unit & Expansion Module

CANopen Modbus DeviceNet

Power Packed Features

Compact

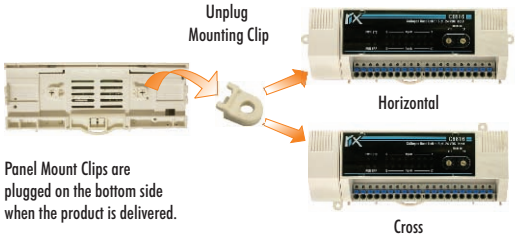


Same as 20 Terminals Size. No change required in Junction Box Design.

64 I/O Points Per Node

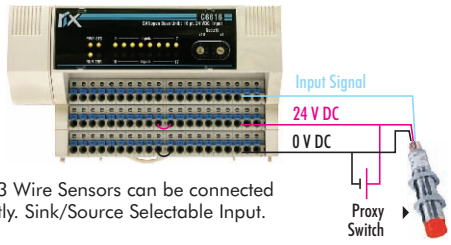
- Base Unit + 3 expansion units. Each unit handles 16 I/O points
- 64 I/O points per remote node

Easy Mounting



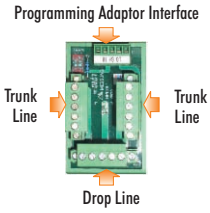
Panel Mount Clips are plugged on the bottom side when the product is delivered.

Efficient I/O Wiring Arm



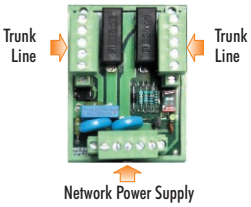
2 or 3 Wire Sensors can be connected directly. Sink/Source Selectable Input.

Programming though CANbus in Network



T Junction 6930A - for easy Programming via CANbus & connecting each Device on Trunk Line with Drop Lines.

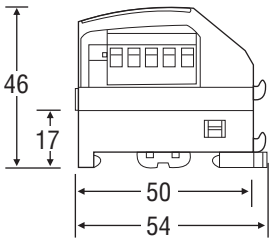
Power in CANopen Network

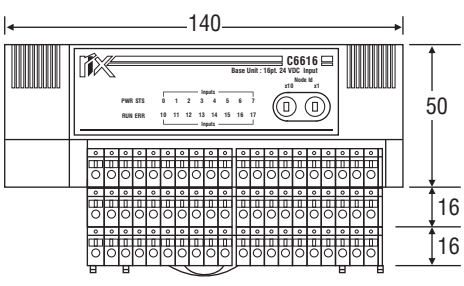


Power Junction 6931-for introduce Network Power in the Network.

Dimensional Details

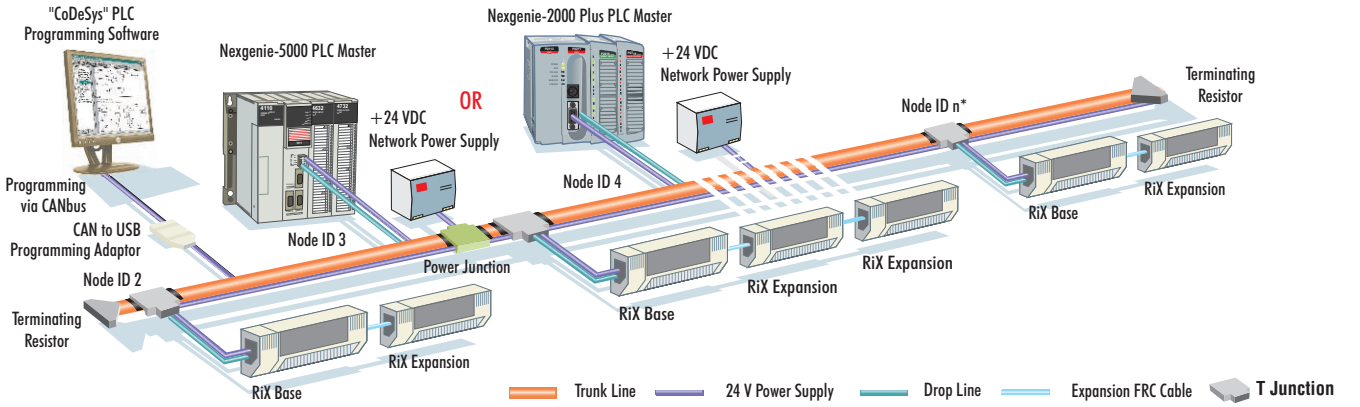
Dimensions (Base/ Expansion Unit):
140 mm x 54 mm x 46 mm (W x H x D)





Note : All Dimensions are in mm

Typical Remote I/O Scheme



n*: Network up to 31 nodes with Nexgenie-5000 CPU as CANopen Master or Network up to 8 nodes with Nexgenie-2000 CPU as CANopen Master.

Product Specifications

Network Options	CANopen / Devicenet / Modbus
Max. Units per Node	1 Base Unit + 3 Expansion Units
Operating Temperature	0 to 55°C
Relative Humidity	5 to 90% Non Condensing
Noise Immunity Operations	IEC 1000-4-4, 2 KV Conductive on Network, Power Supply, 1 KV Capacitive on Network Cable
Shock	IEC61131-2 Operating: 15g (DIN Rail & Panel Mounting)
Vibration	IEC61131-2 Operating: 5 to 150 Hz, 1g, 3.5mm Amplitude
Mounting	DIN rail or Panel Mount
Protection	IP 20
I/O Connections	20-pin 5.00 mm Pitch Push Type Fixed Terminal Block
I/O Wire Size Recommended	RiX Input Wiring: 0.5 sq. mm per i/p, RIX Output Wiring: 0.75 sq. mm per o/p
Network Connections	5-pin 5.08 mm Pitch Screw Type Open Style Connector
Network Cable Recommended	LAPP Cable LI2YCY 2 x 2 x 0.22 for Network up to 100 mtrs Leoni / Belden / Helukabel Thick CAN Cable for Network above 100 mtrs
Unit Power Supply	11 to 30 VDC through 5-pin Network Connector
Network Power Supply	24 VDC, 5 A*
Power Supply Protection	Reverse Polarity
Baud Rate	Auto Baud Detection (10, 20, 50, 125, 250, 500, 1000 Kbps)

*For more details please refer to the installation manual

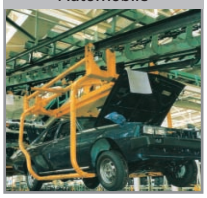
Product Code Details

Item Description	Ordering Code		
	CANopen	Devicenet	Modbus
RiX Base Unit 16 Pt. 24 VDC Sink/Source Inputs	C6616	D6616	M6616
RiX Base Unit 8 pt. 110 VAC/ 220 VAC Inputs	C6609	D6609	M6609
RiX Base Unit 8 pt. Relay Outputs @ 24 VDC/ 110 VAC/ 220 VAC, 1 Amp per point (Potential free) Contact Type	C6709	D6709	M6709
RiX Base Unit 8 pt. Outputs @ 24 VDC Source, 1.5 Amp per point	C6710	D6710	M6710
RiX Base Unit 16 pt. Outputs @ 24 VDC Source, 250 mA per point	C6716	D6716	M6716
RiX Base Unit 8 pt. 24 VDC Sink/Source Inputs + 8 pt. Outputs @ 24 VDC Source, 250 mA per point	C6418	D6418	M6418
RiX Base Unit 8 pt. 24 VDC Sink/Source Inputs + 6 pt. Relay Outputs @ 24 VDC/ 110 VAC/ 220 VAC 500 mA, per point	C6417	D6417	M6417
RiX Base Unit 4 pt. 24 VDC Sink/Source Inputs + 4 pt. Outputs @ 24 VDC Source, 250 mA per point + 8 pt. Programmable Inputs (24 VDC Sink Type) or Programmable Outputs (24 VDC Source Type, 250 mA per point) configurable via CoDeSys	C6419	D6419	M6419

Item Description	Ordering Code
Expansion Unit - 16 pt. 24 VDC Sink/Source Inputs	X6616
Expansion Unit - 8 pt. 110 VAC/ 220 VAC Inputs	X6609
Expansion Unit - 8 pt. Relay Outputs @ 24 VDC/ 110 VAC/ 220 VAC, 1 Amp per point Potential free Contact Type	X6709
Expansion Unit - 8 pt. Outputs @ 24 VDC Source, 1.5 A per point	X6710
Expansion Unit - 16 pt. Outputs @ 24 VDC, Source, 250 mA per point	X6716
Expansion Unit - 8 pt. 24 VDC Sink/Source Inputs + 8 pt. Outputs @ 24 VDC Source, 250 mA per point	X6418
Expansion Unit - 8 pt. 24 VDC Sink/Source Inputs + 6 pt. Relay Outputs @ 24 VDC/ 110 VAC/ 220 VAC 500 mA per point	X6417

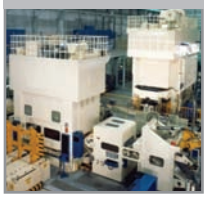
A Gamut of Applications

Automobile



HVAC

Press



Infrastructure

Conveyor Line

Furnace

RiX PB Station

CANopen DeviceNet

Setting a New Trend in Push Button Stations

Mitsubishi Electric India introduces Push Button Stations with compact and sleek design. With various network options available and additional utility I/Os on board, this product is entirely pre-assembled when delivered.

Highlights

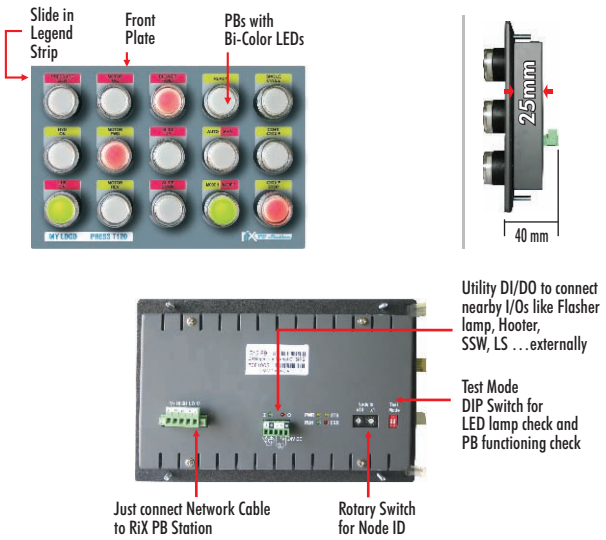
- Compact and Sleek Design
- Pre-assembled and Ready-to-use
- Two Colour (Red and Green) LEDs in each Push Button
- Built-in Lamp Test and Push Button Test Mode
- Slide-in Strips for Individual Push Button
- Additional Utility I/Os on Board
- IP65 Protection from the Front Side
- Easily Configurable and Programmable
- Various Network Options

Benefits

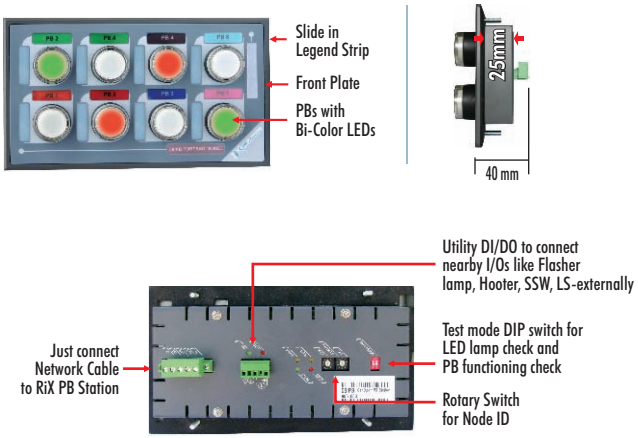
- Cost-effective alternative to Conventional Operator Stations where Push Buttons and Lamps need not be fitted and wired individually
- Easy-to-install, saves time
- No I/Os and no hassles of wiring Push Buttons and Lamps
- Great flexibility to use each element as Push Button or Lamp or Illuminated Push Button

Power Packed Features

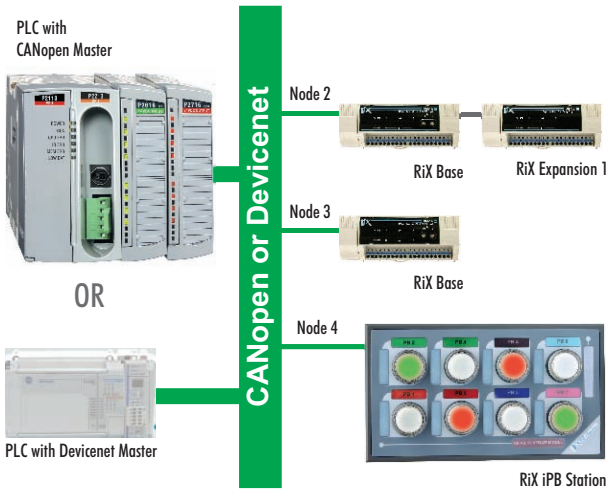
15*i*PB Station CANopen DeviceNet



08*i*PB Station CANopen DeviceNet



System Configuration



General Specifications

Specifications		15 *i*PB	08 *i*PB
Mounting		Front panel	
Protection		IP 65 from the Front Side IP 20 from the Rear Side	
Dimensions (in mm)	Front	255 x 165 (W x H)	210 x 120 (W x H)
	Depth	25 (40 mm including Network and I/O Connector)	26 (including Network and I/O Connector)
	Panel Cut out	218 x 128 (W x H)	188 x 84 (W x H)
Weight		800 grams	660 grams
Number of Push Buttons		15 arranged in 5 X 3 Matrix	8 arranged in 4 x 2 Matrix
Type of Push Buttons		Illuminated Flush Type	
Mechanical Life of Push Button Contact		10,00,000 at 23° C and at Test Force (1.5 X Rated Force)	

Description	CANopen	Devicenet
RiX CANopen 15 Illuminated Push Button Station	C15IPB	D15IPB
RiX CANopen 8 Illuminated Push Button Station	C8IPB	D08IPB

MS Series HMI

A Balanced Choice

The New Generation HMIs with Smart Add-on Features!

Highlights

- Touch Screen Interfaces available in five different sizes from 3 inches to 10.4 inches with three levels of functionality- Economic, Classic and Premium
- Multiple ports/ USB ports /Ethernet Port options available
- Data/ Recipe Memory available
- 16 Gray/ 256 Colour/ 64 K Colour TFT options available
- Multi-language Support
- Animated Graphics
- Windows based Programming Software viz. MS Designer

Technical Specifications



Specification	MS-40M-E	MS-61B-E	MS-60B-E	MS-60B-Ce
LCD Type	Mono STN LCD	Mono STN LCD	Mono STN LCD	
Display Colour	16 shades of gray	16 shades of blue	16 shades of blue	
Screen Size	3.3" (diagonal)	5.7" (diagonal)	5.7" (diagonal)	
Display Resolution	240 x 240	320 x 240	320 x 240	
Application Flash ROM	4 MB	2 MB	4 MB	
Data/Recipe	-	256 KB	-	512 KB
Data Store (CF card)	-	-	-	Yes
COM1	9-pin Female (RS232/RS422/RS485)	COM1, 9-pin Female (RS232/ RS485/ RS422 without RTS/ CTC) or (RS232/ COM2 RS422/ RS485 without RTS/ CTS)	9-pin Female (RS232/ RS485)	
COM2	-		25-pin Female (RS232/ RS422/ RS485)	
USB Host	-	-	-	1
USB Device	-	-	-	1
Ethernet	-	-	-	
Certification	CE	CE	CE	
External Dimensions (mm)	96 (W) x 96 (H) x 40 (D)	195 (W) x 145 (H) x 40.2 (D)	195 (W) x 145 (H) x 59.1 (D)	
Cut-out dimensions (mm)	89.3 x 89.3	185.8 x 135.8	185.8 x 135.8	




Specification	MS-61 T-E	MS-60 T-C	MS-60 T-Ce	MS-60 T-Pe	MS-70 T-Ce	MS-100 T-Pe
LCD Type	Color TFT LCD	Color TFT LCD			Color TFT LCD	Color TFT LCD
Display Colour	256 Colour	256 Colour	64 K Colour	64 K Colour	64 K Colour	64 K Colour
Screen Size	5.7" (diagonal)	5.7" (diagonal)			7" (diagonal)	10.4" (diagonal)
Display Resolution	320 x 240	320 x 240			800 x 480	640 x 480
Application Flash ROM	2 MB	4 MB			8 MB	8 MB
Data/Recipe	256 KB	512 KB			512 KB	512 KB
Data Store (CF card)	-	-	Yes		Yes	Yes
COM1	9-pin Female (RS232/RS485/ RS422 without RTS/CTC) or 9-pin Female (RS232/RS422/ RS485)	9-pin Female (RS232/RS485)			9-pin Female (RS232/RS485)	9-pin Female (RS232/RS485)
COM2		25-pin Female (RS232/RS422/RS485)			25-pin Female (RS232/RS422/RS485)	25-pin Female (RS232/RS422/RS485)
USB Host	-	-	1		2	2
USB Device	-	-	1		1	1
26 - Connector for Printer	-	Yes	-		-	-
Ethernet	-	-		Yes	-	Yes
Certification	CE	CE			CE	CE
External Dimensions (mm)	195 (W) x 145 (H) x 44.4 (D)	195 (W) x 145 (H) x 59.1 (D)			231 (W) x 176 (H) x 46.8 (D)	297 (W) x 222 (H) x 52.3 (D)
Cut-out Dimensions (mm)	185.8 x 135.8	185.8 x 135.8			220.8 x 165.8	286 x 211

Description (MS Series HMI to PLC Communication Cables - Length 3 Mtrs)	Ordering Code
Cable between HMI to Nexgenie2000 / Plus PLC Port-1 : RS232	STCAB1 0310 1A
Cable between HMI to Nexgenie5000 PLC Port-1, 2, 3 OR Nexgenie2000 /Plus PLC Port-2: RS232	STCAB1 0310 A
Cable between HMI to Nexgenie5000 PLC Port-2, 3 OR Nexgenie2000 / Plus PLC Port-2: RS485	STCAB1 0310 C
Cable between HMI to XMP8-10 PLC	STCAB1 0306 C
Cable between HMI to Nexgenie 5000 PLC Port-2, 3 OR Nexgenie 2000 / Plus PLC Port-2: RS422	STCAB2 0310 B
Cable between HMI to Nexgenie 1000 PLC Port-1: RS485	STCAB1 0311 C
Cable between HMI to Nexgenie 1000 PLC Port-1/2: RS232	STCAB1 0311 A
Cable between HMI to Nexgenie 1000 PLC Port-2: RS422	STCAB2 0311 B

MS Series HMI Programming Cable	Item Code
Programming cable for MS Series HMI, 9 pin female(RS232 Port) to 9 pin male-4 mtrs	9930
Programming cable for MS Series HMI, 9 pin female(RS232 port) to 25 pin male-4 mtrs	9931
PC based progamming software "SOFT Touch"	9940

Text Operator Panels

Technical Specifications




Specifications	Smartline Junior	Smartline Jr. Ex-V2	Smartline Sr. Ex	Smartline Senior
Display	Yellow Backlit with Black Text Display	Blue Backlit with White Text Display	Blue Backlit with White Text Display	Yellow Backlit with Black Text Display
Display Size	16 Ch.* 2 Line LCD	20 Ch.* 2 Line LCD (Blue Backlit)	20 Ch.* 4 Line LCD (Blue Backlit)	20 Ch.* 4 Line LCD
Backlit Off / Screen Saver Mode	Not Supported, Continuous ON	Yes (User Selectable)	Yes (User Selectable)	Not Supported, Continuous ON
LEDs	4 LEDs (Bicolour)	8 LEDs (Bicolour)	8 LEDs (Bicolour)	28 LEDs (Red)
Function Keys	16 Keys - 12 Fixed + 4 Function Keys	20 Keys - 12 Fixed + 8 Function Keys	24 Keys - 12 Fixed + 12 Function Keys	28 Freely Programmable Keys
Password Protection	N.A.	3 Level Password Scheme (Global Log in)	3 Level Password Scheme (Global Log in)	3 Level Password Scheme (Global and Local Entry)
Memory for Application	8 K EEPROM	16 K Flash	16 K Flash	16 K EEPROM
Communication Interface	RS422, RS485 with 8 pin mini Din Connector	RS232, RS422, RS485 with 9 pin D Connector	RS232, RS422, RS485 with 9 pin D Connector	RS232C, RS485 / 20mA Current Loop for PLCs with 9 pin D Connector
Maximum Ambient Temperature	50°C	45 to 50°C	45 to 50°C	50°C
Protection Rating - IP 65	Yes	Yes	Yes	Yes
Dimensions (W x H x D) mm	125 x 75 x 40	155 x 109 x 34	160 x 113 x 34	200 x 150 x 50
Panel Cut Out (W x H) mm	117 x 67 (+1 mm)	125 x 82 (+ 1 mm)	125 x 95 (+ 1 mm)	186 x 141 (+1 mm)
Character Size (W x H) mm	2.95 x 4.35	3.2 x 5.55	2.95 x 4.75	2.95 x 4.75
No. Of Key Operations	01 Million with 320 gmf	01 Million with 320 gmf	01 Million with 320 gmf	01 Million with 320 gmf
Mylar Texts : Legend	Legend strip for User Function Texts	Legend strip for User Function Texts	Legend strip for User Function Texts	Complete Mylar as per User Texts
Power Supply	4 to 16 V DC / 1.5 watts approx., via Serial Port	18 to 30V DC, 24V DC @125 mA	18 to 30V DC, 24V DC @150 mA	24 V DC, +/ - 20 % @ 500mA (maximum)
Communication Driver update	Factory Fixed	On-site update possible	On-site update possible	Factory Fixed
Window Based Programing Software	Softline	Softline	Softline	Softline

Product development is a continuous process. Consequently, specifications are subject to change without prior notice. For latest information, please contact our nearest sales office.

SMARTLINE Ex HMI to PLC Link Cable Details

Cable Description	Whenever ** = 03, 05,10,15,20,25 for 3 Mtr,5 Mtr,10 Mtr,15 Mtr,20 Mtr & 25 Mtr. respectively		
HMI Sr/Jr Ex to PLC Link Cable	**Link Cable Ordering Code**	**Interface**	**Remarks**
HMI Sr/Jr Ex / Nexgenie 1000 PLC	SL Sr / Jr Ex CAB 031101	RS 232	Direct Connection to Nexgenie 1000 PLC (1st port)
	SL Sr / Jr Ex CAB ** 11	RS 422	Direct Connection to Nexgenie 1000 PLC (2nd port)
HMI Sr/Jr Ex / Nexgenie 2000 & Nexgenie 2000 Plus PLC	SL Ex CAB 031001	RS 232	Direct Connection to Nexgenie 2000 PLC (1st port)
	SL Sr / Jr Ex CAB ** 09 23	RS 422	Direct Connection to Nexgenie 2000 PLC (2nd port)
HMI Sr/Jr Ex to XMP8 -11/12/15/16 PLC	SL Sr / Jr Ex CAB ** 06	RS 485	Direct Connection to XMP8 -11/12/15/16 PLC
HMI Sr/Jr Ex to Nexgenie 5000 PLC	SL Sr / Jr Ex CAB 030901	RS 232	Direct Connection to Nexgenie 522X / 523X Series CPU (1st port)
	SL Sr / Jr Ex CAB ** 09 23	RS 422	Direct Connection to Nexgenie 522X / 523X Series CPU (2nd & 3rd port)
HMI Sr/Jr Ex to Mitsubishi FXON / FX 2N / FX 3U PLC	SL Sr / Jr Ex CAB ** 08	RS 422	Direct Connection to FXON / FX 2N / FX 3U PLC

Note: PLC Link Cables are to be ordered separately as above

SMARTLINE HMI to PLC Link Cable Details

	Ordering Code	Ordering Information
Senior HMI	SL CAB ** 06	Cable between Sr. HMI and XMP8-10
	SL CAB ** 0923	Cable between Sr. HMI and Nexgenie-5000/2000/2K Plus PLC 2nd Port
	SLCAB030901	Cable between Sr. HMI and Nexgenie-5000/2000/2K Plus PLC 1st Port
	SL CAB ** 51	Cable between Sr. HMI and FX2N/FXON/FX1N PLC
	SL CAB ** 08	Cable between Sr. HMI and FX3U PLC
Junior HMI	SLJRCAB0308	Cable between Jr. HMI and Micro / FX2N / FX3U PLC
	SL JR CAB ** 06	Cable between Jr. HMI and XMP8-10, Length - 5 mtr. Onwards
	SL JR CAB PS ** 0923	Cable between Jr. HMI and Nexgenie-5000/2000/2K Plus PLC
	SLJRCAB ** 51/5VDC	Cable between Jr. HMI and FX Series 5 mtr. Onwards

Whenever ** = 03,05,10,15,20,25 for 3 Mtr., 5 Mtr.,10 Mtr., 15 Mtr., 20 Mtr. & 25 Mtrs. respectively.

Quad Band GSM/GPRS modem

MS MDM-01-S

Highlights

- Accepts Standard SIM Card
- Can be used on standard GSM Network
- RS232 Interface with PLC/PC Port
- SMS & Data Transfer
- Compact & Sleek Design
- Quad Band 850/900/1800/1900 MHz
- GSM 100T: TCP/IP Stack available for data & internet
- GPRS Class B Class 10:36 Kbps download/24 Kbps upload
- Easy Plug & Play

The GSM/GPRS modem communicates swiftly with all Nexgenie Series PLCs with Special "Ready to Use" functions library

Accessories

XeA 6020

Ethernet Adaptor with Modbus Protocol (Modbus RTU / ASCII to Modbus TCP/IP)

XeA 6021

Ethernet Adaptor with Transparent Protocol

RCV 0202

2 Chanel PT100 to Voltage Converter

XMPS VCF 2001

Voltage to Frequency Converter

6010

RS232 to RS422/ RS485 Converter with Isolation

6012 / 6013 / 6014

RS422/ RS485 to RS422/ RS485 Converter with Isolation

XMP8 PSU 1010

24 VDC SMPS @ 1.5A

PSU 1011

24 VDC SMPS @ 0.5A

Our Esteemed Clientele

A snapshot of some of our esteemed clients from various sectors. We are proud to be a part of their success stories.

AUTOMOTIVE
- Ashok Leyland
- Bajaj Auto
- Bosch Group
- Eicher Volvo
- Gabriel
- Hero Honda
- John Deere
- Mahindra & Mahindra
- Mann Motors
- SKF Bearings

CIVIL AUTOMATION
- Wipro Limited
- RDS
- Kirloskar Brothers
- Bamo Electronics

CONSUMER PRODUCTS
- Godrej & Boyce
- Hindustan Unilever Limited

UTILITY
- Chicago Pneumatic
- Forbes Marshall
- Kirloskar
- L&T
- Sterling Generators
- Syngenta
- Vijay Electricals

FORGING/STEEL INDUSTRY
- Bharat Forge
- Kalyani Carpenter
- Kirloskar Ferrous
- Maharashtra Seamless

PACKAGING
- Prestopack
- UFlex
- Superpack
- R.M.C Packaging
- Sealetech Industries

PLASTICS
- JP Industries
- Lohiya Sterling
- Prasad Koch Technik

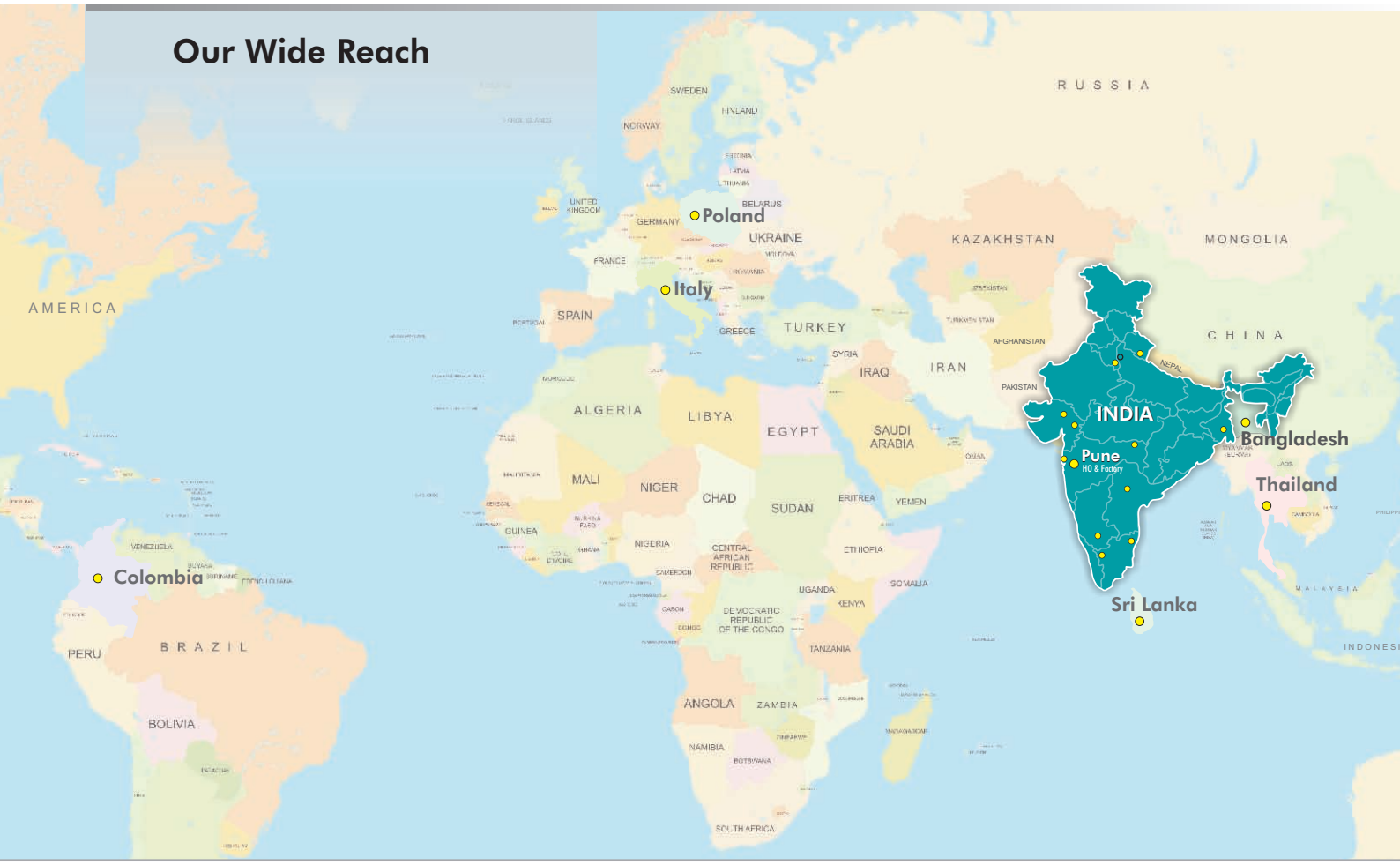
TEXTILE
- Indorama
- Raymonds
- Tex Fab
- Elgi Equipment
- Simta

PUBLIC SECTOR COMPANIES
- BEML Limited (formerly Bharat Earth Movers Limited)
- Bharat Heavy Electricals Limited (BHEL)
- Rail Coach Factory (RCF)
- HMT Ltd.
- Vehicles Factory
- Chittaranjan Locomotives
- Hindustan Aeronotics Ltd. (HAL)

Awards and Citations

In all our endeavours, we believe in offering nothing but the best. And, this promise has earned our products a number of awards. This is a testimony to our strong belief and success.

Our Wide Reach



Mitsubishi Electric India Pvt. Ltd.
Factory Automation & Industrial Division

FAID Head Office: Emerald House, EL-3, J Block, M.I.D.C. Bhosari, Pune - 411026, INDIA
Tel: +91-20-2710 2000 Fax: +91-20-2710 2100
Email: marketing.FA2@mei-india.com
Web: **www.MitsubishiElectric.in**

Gurgaon | Rudrapur | Kolkata | Mumbai | Pune | Vadodara | Nagpur | Chennai | Bengaluru | Hyderabad | Coimbatore

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