



A & A CORPORATION

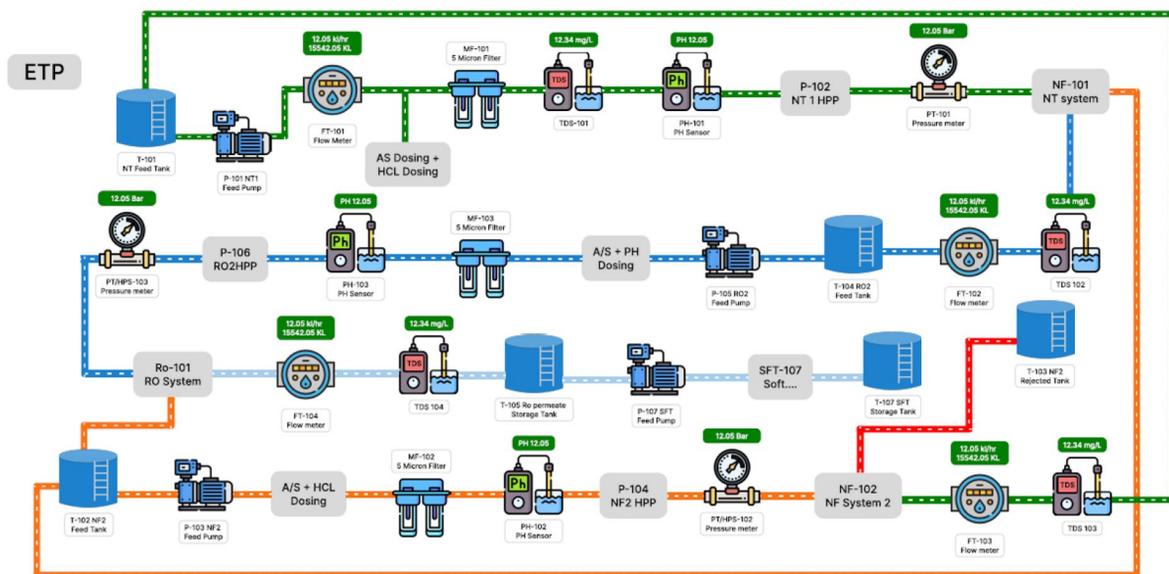
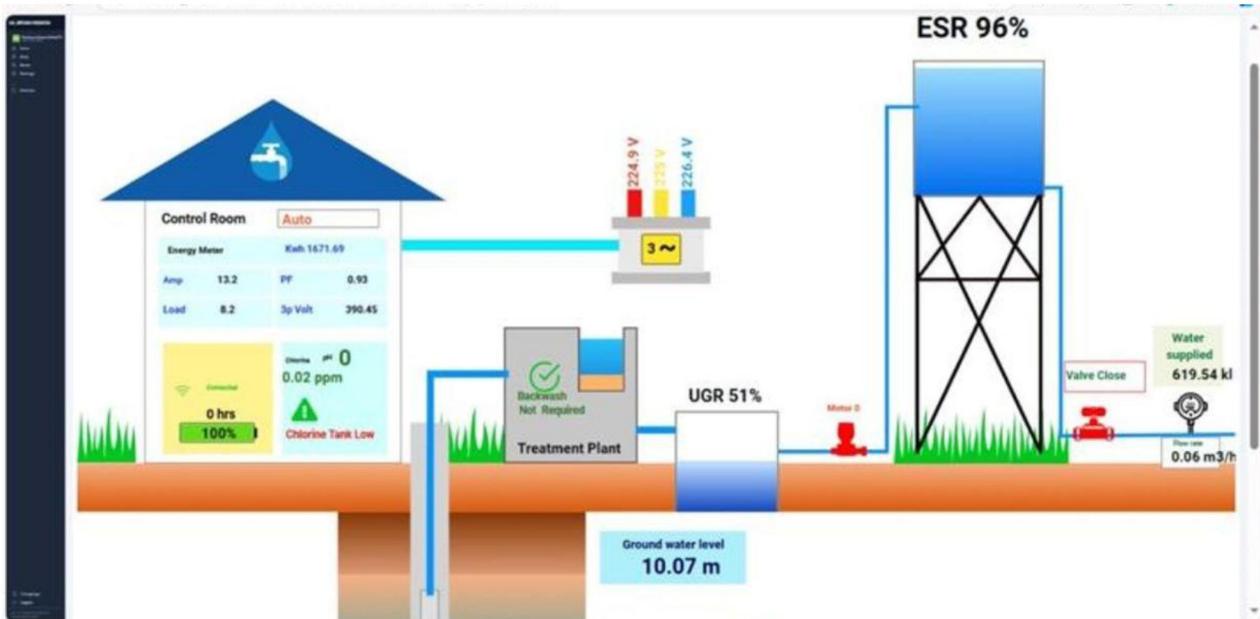
SCADA AUTOMATION OF WATER PROJECT



MANJEERA



SMART IOT AND AI based WATER Quality MANAGEMENT



Vision - Fast Forwarding The World's Transition To Sustainable & Connected Infrastructure

COMPANY PROFILE

Name: A & A Corporation

Area: Our innovation is a next-generation Industry 4.0 IoT edge device /gateway branded as Manjeera IOT and dashboard manjeera.io used for remote data control equipped with device management and analytics. The device is Industry and communication agnostic (5G, 4G, WIFI, Lora, NbIoT, Satellite) and can work along with all kinds of sensors, meters, devices, Valve etc.

Founded by: IIT Bombay Alumni Member

Experience in IOT and water industries – 10 years.



#startupindia



Previous and present awards

INNOVATION AWARDS

- UN Industrial Development Organization (UNIDO) – Industrial IoT Innovation (2021)
- Top 34 global innovations (Japanese Government) (2019)
- Top 15 Global Innovations – GMIS2019, Russia (United Nations, Russian Government & UAE Government) (2019)
- 2023 – Selected for Global Entrepreneur Programme (GEP) - DIT UK.

START-UP RECOGNITION

- Globally among top 10 hardware start-ups (Hong Kong Trade Show by start-up Launchpad) (2019)
- Top 20 Energy startups (by Startup Istanbul) (2017)

COMPETITIVE WINS

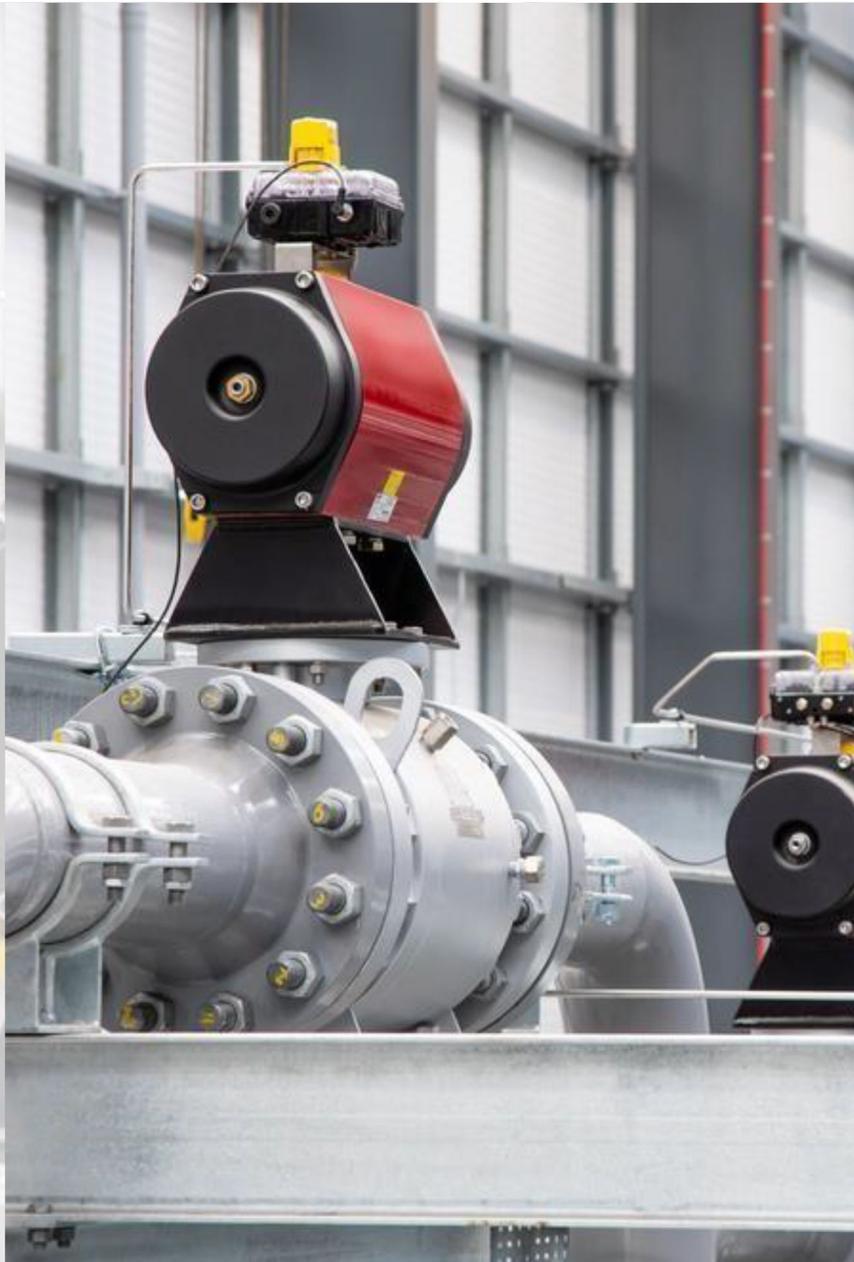
- 33 under 33 International Clean Energy Challenge winners – Founders (Ashutosh Kumar Austria)(2019)
- Top 8 for GetInTheRing (Berlin, Germany) - 2019.
- Top 9 teams across complete Asia Pacific in the Power & Energy Sector (by Schneider Electric) Singapore(2018)

INDIAN GOVERNMENT SUPPORT

- 2024 – Smart prepaid water meter - AMRUT 2.0 Awardee – phase 2 - Ministry of Housing & Urban Affairs
- 2023 – Smart meter hackathon winner - Economically Viable Smart Meters Challenge
- 2022 – Smart water management - AMRUT 2.0 – phase 1 Awardee – Ministry of Housing & Urban Affairs
- 2022 and 2023 - Awarded by Ministry of tele communication under digital communication innovation square initiative(DCIS 2022 and DCIS 2023)
- 2022 - CII 23rd National Award for Excellence in Energy Management – The Confederation of Indian Industry
- 2022 & 2021 - Runners up - Smart Communication Module for national smart meter program by Intellismart – EESL – Government of India
- 2022 & 2021 - Smart Energy Management award by NASSCOM (2021)

Why Digitize Water Infrastructure ?

- Reduce Non Revenue Water (NRW)
- Regulatory body integration :
CGWA,SGWA,CPCB,SPCB,JJM and Amrut 2.0
- Optimize wastage caused due to leakages,
overflows and pilferages
- Provide continuous supply all the zones.
- Ensure quality of water supplied and discharged
- Accountability and equitable distribution
- Reducing the pump downtimes and inefficiency
- Automation of manual operations



INDUSTRIES SMART WATER SOLUTION OVERVIEW



Electromagnet /Ultrasonic/Pulse /HART based Flowmeter



Piezo based level Meter/Ultrasonic based level sensor



Water pump Automation



Water quality sensor



Smart prepaid /Normal Water meter



Effluent monitoring system



Valve control system



Dashboard
Device Name: FT_500026

- MENU
- Dashboard
- Overview
- Devices
- Report
- Alert



Last 24 Hours Meta Data Reading

TIMESTAMP	FLOW	FLOW UNIT	TOTAL
2024-09-02 18:01:28	1.871	m³/hr	1460.655
2024-09-02 18:01:17	1.894	m³/hr	1460.650



GSM (5G, 4G), Wi-Fi, LAN, LoRa.

TRANSFORM YOUR EXISTING WATER MACHINERY/INFRASTRUCTURE WITH MANJEERA IOT AND TRANSIT INTO SMARTER SOLUTION TO AVAIL TO REAL TIME INSIGHTS RESULTING IN INCREASED PROFITABILITY

- Can measure flowrate, totalizer, level, Ph, conductivity, valve control, and water billing
- Remote monitoring/Control
- Web portal or mobile app
- Alert at your fingertips

- Monitoring water data from single dashboard
- Alert over SMS AND Email to perform on time repair
- Automatic report generation to ease your submission of water report to regulator (CPCB, CGWA , SPCB)
- Leverage Our API integration with regulator, that provide electronic data interchange (EDI) for automated compliance reporting

LIST OF PRODUCT OFFERING

BUILT IN CONNECTIVITY

Gain visibility and control into hard to wire locations with built in **GSM** (4G & 5G), **LAN** **LoRa**,Wi-Fi



STORAGE

On-device storage for mission critical data to ensure data continuity and integrity in the case of network outages

OPEN PLATFORM

Easy to integrate with existing Device via any common industrial protocol: Modbus RTU,TCP, **DLMS**, Serial, MQTT, PLC and SCADA

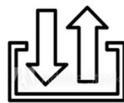


SCADA AND GOVERNMENT BASED CLOUD COMPATIBLE

All kind of GOVERNMENT SCADA AND WEB BASED CLOUD COMPATIBLE

BUILT-IN I/O

Analog and digital I/Os for direct monitoring and control



COMPACT DEVICE

Dimensions of the device allows its use in limited space and difficult environmental conditions.

Real Time SOFTWARE DASHBOARD/SACADA OVERVIEW

manjeera.io – IoT Dashboard

Device Management

Provision, monitor and control IoT entities in secure way using rich server-side APIs. Define relations between your devices, assets, customers or any other entities.



Dashboard White labelling

Option to customers to custom white label their brand as well as the Domain name for marketing visibility.

Collect and visualize data

Collect and store telemetry data in scalable and fault-tolerant way. Visualize data with built-in or custom widgets and flexible dashboards.



Access Controls

Dashboard Access Hierarchy can be set based on the client needs for secure & controlled Login with all available cloud services.

SCADA AND GOVERNMENT BASED CLOUD COMPATIBLE

All kind of GOVERNMENT SCADA AND WEB BASED CLOUD COMPATIBLE



AI - Process and React

Define data processing rule chains. Transform and normalize device data. Raise alarms on incoming telemetry events, attribute updates, device inactivity and user actions.

Manjeera Water flow meter for Monitoring and Analysis

- Regulatory body integration : CGWA,SGWA,CPCB,SPCB,JJM and Amrut 2.0
- Monitoring and trends of flow rate and flow totalizer
- Monitoring inlet and outlet of STP, WTP, ETP ,Borewell, corporate building and factory.
- Monitoring of water supplied different zones/areas/processes
- Electromagnetic, Ultrasonic, Mechanical meters having Modbus, HART, 4-20mA, Pulse output
- Performing water balance
- Automated metering



Manjeera Water Level Monitoring Solution

- Regulatory body integration : CGWA,SGWA,CPCB,SPCB,JJM and Amrut 2.0
- Monitoring and trends of level sensor
- Monitoring level of open reservoirs, lake, river, waste water infra in order to avoid ,STP, WTP, ETP ,Borewell, corporate building , factor, open reservoirs, lake, river, waste water infra in order to avoid
- To remotely monitor the level in the storage tanks(over head and under ground) or open reservoirs, lake, river, waste water infra in order to avoid overflow and optimize pump operations
- Digitizing hydrostatic pressure based or Ultrasonic sensors having Modbus RS 485, 4-20mA



Manjeera IOT based Pump and Valve **Monitoring** and Automation

- Complete Automation of all kind of JJM , Amrut 2.0 project
- Integration with all kind of PLC and central Scada system
- Monitoring of pump energy consumption, dry run protection, over voltage and over current protection.
- Monitoring of vibration and temperature levels for predictive Maintenance
- Monitoring of pump protection, VFD and tripping
- Remote Pump and valve control and automation as per time based schedule, pressure or overhead tank level
- Automation and monitoring of all kind of Solar water pump, submersible water pump and surface water pump
- Automation and monitoring of all kind of valve – Butterfly valve, controlled valve, solenoid valve, and gated valve.



Manjeera Water **Quality** Monitoring solution

- Regulatory body integration : CPCB,SPCB,CGWA,SGWA,JJM and Amrut 2.0
- Quality Monitoring of **STP, WTP, ETP ,Borewell, corporate building , factor, open reservoirs, lake, river, waste water infra**
- Tracking water quality sensors and analyzers measuring Chlorine, PH, TDS, BOD, COD, TSS, pH and Temperature, Total Dissolved Solids (TDS) ,Turbidity, Ammonia (NH₃-N),Total Nitrogen, Phosphates, Heavy Metals (Lead, Mercury, Arsenic, etc.), Microbiological analysis (Total Coliform, E. coli) at **water treatment plants, STP, WTP, ETP ,Borewell, corporate building , factor, open reservoirs, lake, river, waste water infra**



Manjeera Smart water meter for municipal corporation, smart city JJM and amrut 2.0 PROJECTS

- Government project : Municipal Cooptation ,JJM and Amrut 2.0
- Battery based smart water meter
- Smart Prepaid water meter
- Gain visibility and control into hard to wire locations with built in **GSM (4G & 5G) and LoRa Network**
- Automatic Valve control based on volume and time
- Battery operated and power-grid
- Integrated prepaid recharge platform and Supported all kind of digital payment mode
- AMR based Ultrasonic, electromagnetic and pulse based (Mechanical) water meter available.
- AMR SYSTEM
- AMR software
- METER READING DEVICE
- Central water information management system

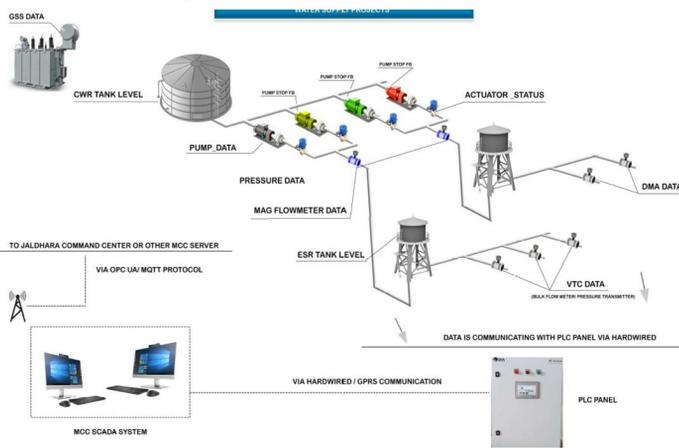


LIST OF PROJECT OFFERING

JJM – JAL JEEVAN MISSION PROJECTS

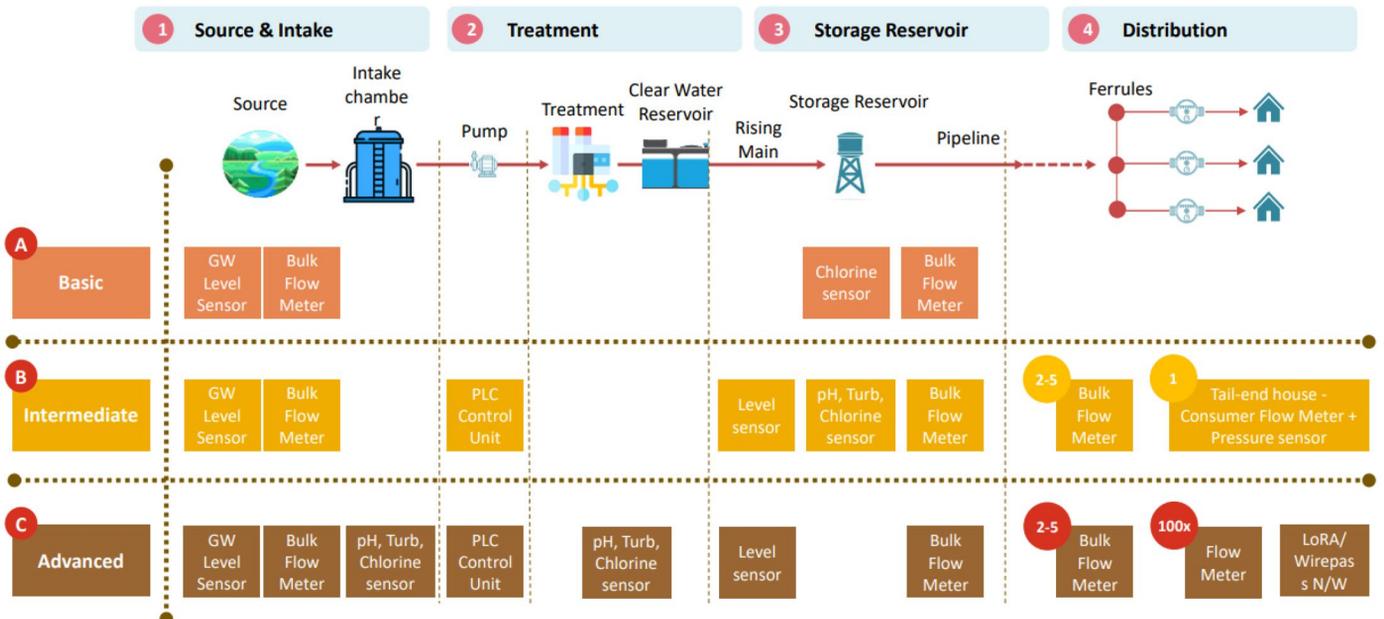
- Complete Automation solution of JJM project
- We will provide Study, Survey, Investigation, Assessment, Design validation and Revamping of entire Water Supply System including WATER QUALITY monitoring, Water Audit, Non Revenue Water reduction, SCADA, Bill reading and generation, Operation and Maintenance of the system
- Manjeera can detailed study and analysis of the present intermediate water supply system and will provide the effective solution to convert it in to 24x7 equitable water distribution system with adequate pressure, with considerable reduction in leakages and non-revenue water, SCADA system, O&M and to ensure complete satisfaction of the consumer.

Current JJM project : Himachal, Rajasthan, Odisha and Gujarat.

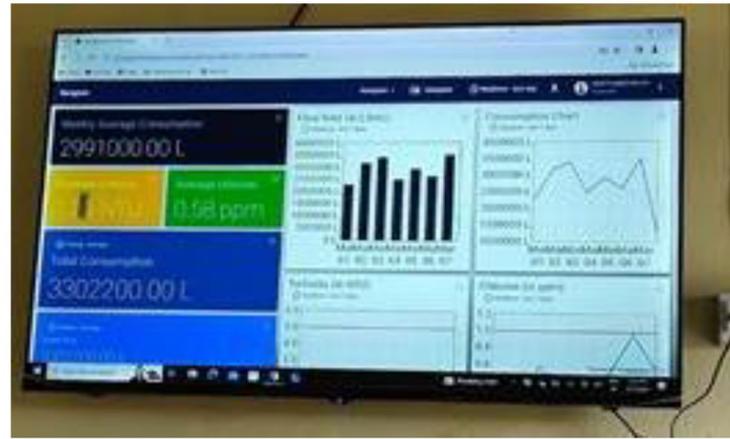
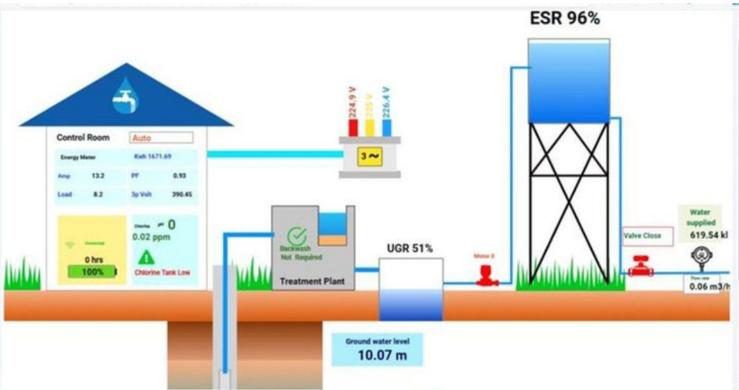


JJM – JAL JEEVAN MISSION PROJECTS

JJM IoT Platform: Implementation options



JJM – JAL JEEVAN MISSION PROJECTS

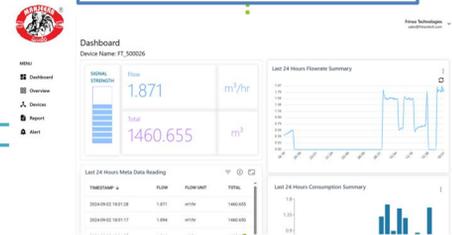


AMRUT 2.0/Smart city PROJECTS

Project name – Smart prepaid water meter ,
Municipal corporation – Mira bhyanadar
Program - Amrut 2.0
Ministry – Ministry of Housing affairs GOI

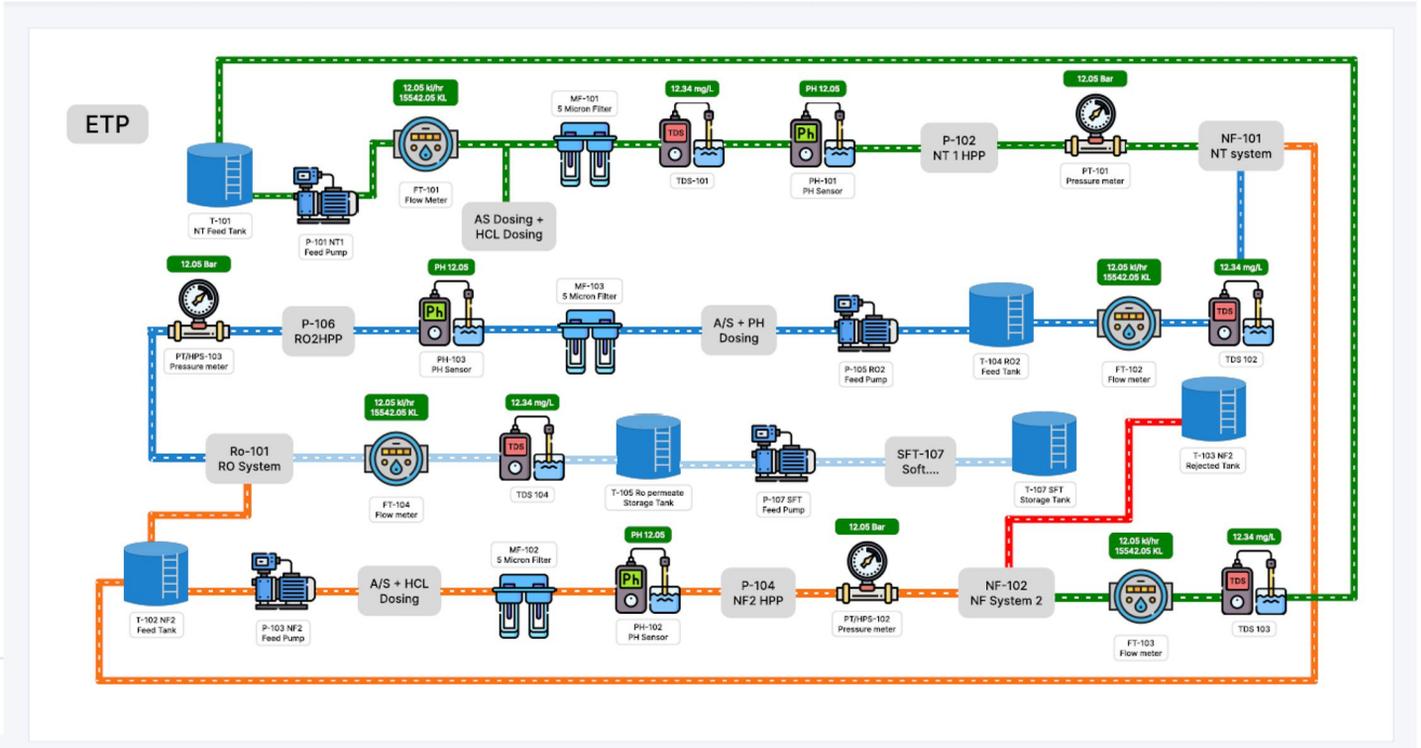


- Can measure flowrate, totalizer ,etc.
- Automatic valve control based on time and based on volume
- Remote monitoring/Control
- Web portal or mobile app
- Alert at your finger tips



- Real time Insights
- Smart decision making
- Quick actionable
- Improves resource efficiency
- Curbs losses

STP/ETP/WTP monitoring



STP/ETP/WTP monitoring

Input (Raw Sewage) Parameters:

- pH
- Biological Oxygen Demand (BOD)
- Chemical Oxygen Demand (COD)
- Total Suspended Solids (TSS)
- Total Dissolved Solids (TDS)
- Turbidity
- Temperature
- Ammonia (NH3-N)
- Total Nitrogen
- Phosphates
- Heavy Metals (Lead, Mercury, Arsenic, etc.)

Output (Treated Water) Parameters:

- pH
- BOD (should be reduced significantly)
- COD
- TSS
- TDS
- Microbiological analysis (Total Coliform, E. coli)
- Turbidity
- Dissolved Oxygen (DO)
- Nitrate & Phosphate levels
- Residual chlorine (if disinfection is applied)

Water Quantity Monitoring

Ultrasonic/ Electromagnetic Flow Meters for accurate real-time data

- Volume Tracking & Storage Monitoring (to measure capacity utilization and avoid overflow)

Energy Consumption Monitoring

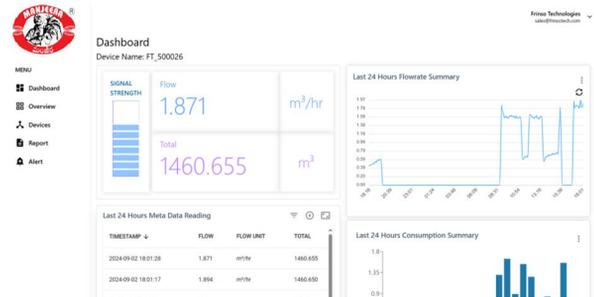
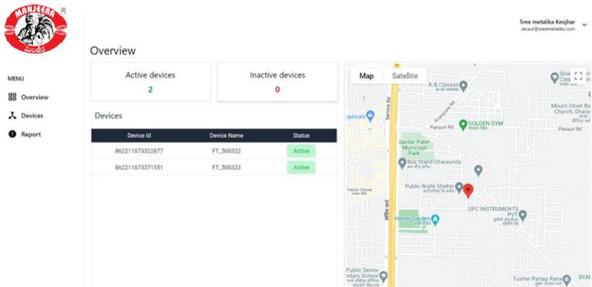
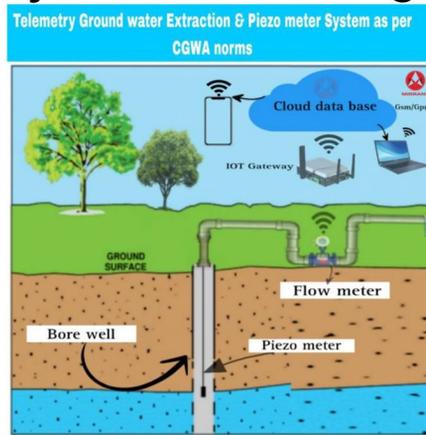
- Total Power Consumption (kWh)
- Power Consumption per KL of Water Processed
- Load & Performance Metrics for Pumps, Aerators, UV Treatment, etc.

STP/ETP/WTP monitoring

- STP monitoring for Pune Municipals Corporation
- STP/ETP monitoring for various Cooperate clients across india
- WTP monitoring for various cooperate client across india

CGWA/CPCB project monitoring

- 10000++ device and meter (Electromagnetic flowmeter and piezo meter) deployed on borewell
- Regulatory body integration : CGWA,SGWA,CPCB,SPCB
- 500++ water quality analyzer deployed



Water quality monitoring projects

- ❑ Regulatory body integration : CPCB,SPCB,CGWA,SGWA,JJM and Amrut 2.0
- ❑ Quality Monitoring of **STP, WTP, ETP ,Borewell, corporate building , factor, open reservoirs, lake, river, waste water infra**

Current Project – Lake water Quality Monitoring monitoring in Bangalore, Smart Water quality monitoring System for Reservoir with IIIT Hyderabad, Smart Water quality monitoring System for river with IIIT Hyderabad.

- ❑ ETP/STP Water quality analyzer monitoring with various government body, Corporate body and msme such as pune municipal corporation
- ❑ JJM project in various state
- ❑ WTP monitoring in various clients – corporate and governments

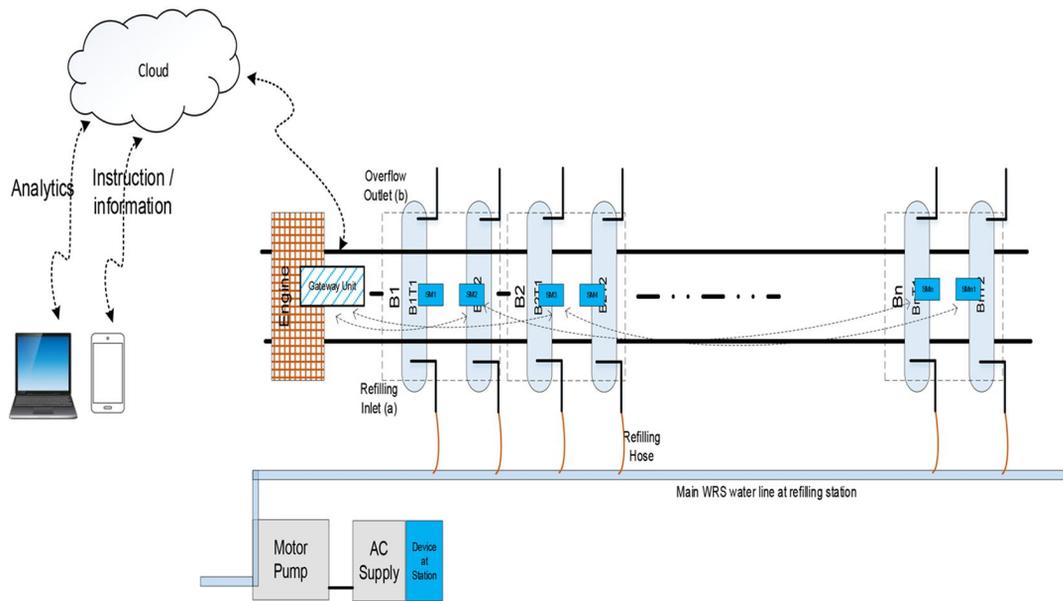
Water Management projects for corporate and residential building

- Current Project – AWFIS, KALPATRU,DLF , ETC

- Real-Time Monitoring:** Manjeera IoT sensors track water usage, flow rates, and leak detection in real time, helping facility managers make informed decisions and respond quickly to anomalies.
- Leak Detection and Prevention:** Manjeera Smart water meters and pressure sensors detect leaks or irregular usage early, reducing water wastage and preventing damage to infrastructure.
- Automated Control Systems:** Manjeera IoT-enabled valves and pumps can automatically regulate water distribution based on demand, optimizing usage across different zones in the building.
- Data Analytics & Reporting:** Manjeera IoT platforms provide dashboards and insights into water consumption patterns, helping corporations set and achieve sustainability goals.
- Integration with Building Management Systems (BMS):** Seamless integration with existing BMS allows for centralized control and automation of water-related utilities, increasing operational efficiency.

Advanced Water Level Monitoring System on Trains

The **Advanced Water Level Monitoring System** is designed to enhance water management on Indian trains, ensuring efficient usage, timely refilling, and improved passenger convenience. Below are the key features:



1. Real-Time Water Level Monitoring
2. Smart Alerts & Notifications
3. Remote Access & Cloud-Based Dashboard
4. Leak Detection & Water Wastage Prevention
5. Automated & Optimized Refilling
6. Energy-Efficient & Low Maintenance
7. AI & Data Analytics for Predictive Maintenance
8. Integration with Smart Railway Systems
9. Supports Passenger Hygiene & Comfort
10. Scalable & Customizable for Different Train Types



SOFT MONITOUCH Manjeera Scada and Manjeera- Server

⚠ Safety Considerations

- For safe operation, read the instruction manual or user manual that comes with the product carefully or consult the distributor from which you purchased the product, before using the product.
- Products introduced in this catalog have not been designed or manufactured for such applications in a system or equipment that will affect human bodies or lives.
- Customers, who want to use the products introduced in this catalog for special systems or devices such as for atomic-energy control, aerospace use, medical use, passenger vehicle, and traffic control, are requested to consult the Hakko Overseas Sales Section.
- Customers are requested to prepare safety measures when they apply the products introduced in this catalog to such systems or facilities that will affect human lives or cause severe damage to property if the products become faulty.
- For safe operation, wiring should be conducted only by qualified engineers who have sufficient technical knowledge about electrical work or wiring.

Notes to consider before purchasing

- Appearance and specifications are subject to modification without prior notice due to technical improvements.
- Colors in the catalog may differ from the actual colors due to printing inaccuracies.
- Consult your distributor or us for further information about products in this catalog.

Distributor

* Product specifications and design are subject to modification.
* Combined images are used for the screen images.
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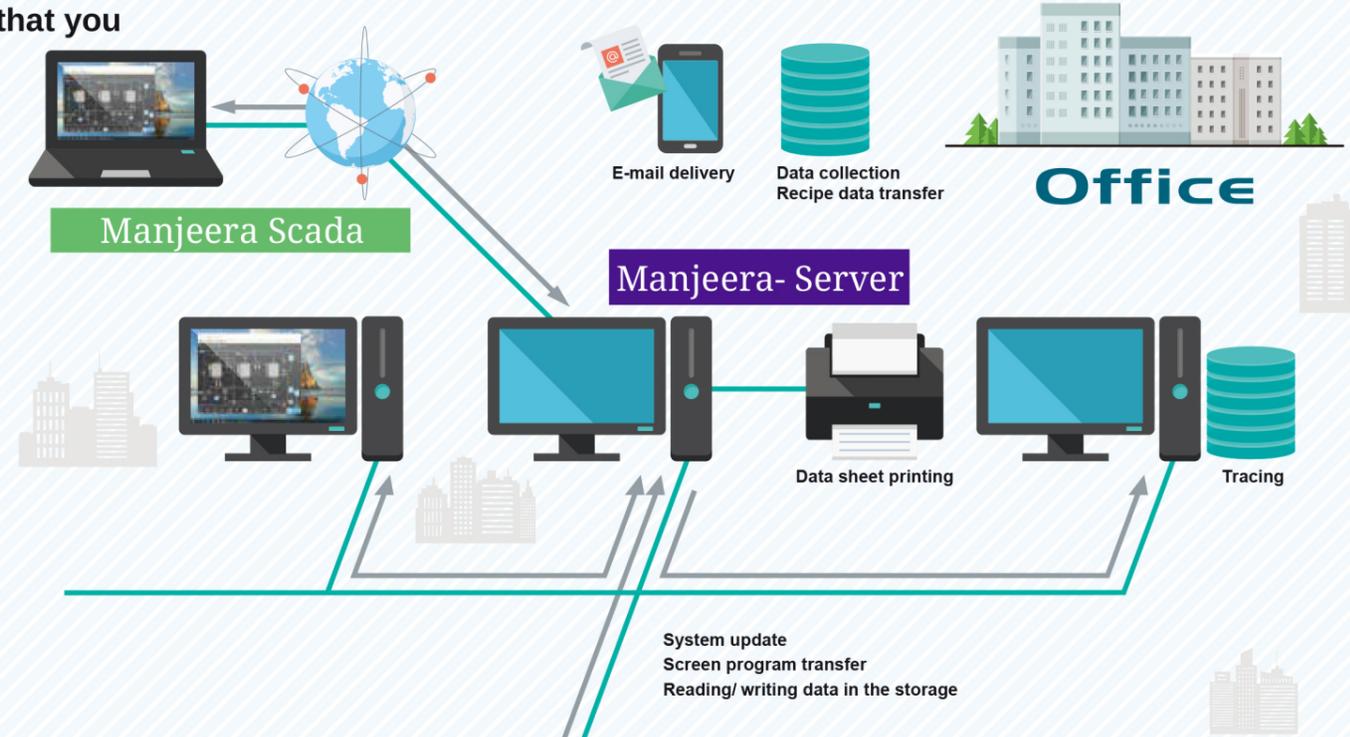
Bringing the factory floor to your desk



Manjeera Scada and Manjeera- Server

Monitoring the factory from the office enables quick response to changes, improving operating efficiency.

Manjeera Scada and Manjeera- Server links MONITOUCH in a factory with a PC in the office, so that you can remotely collect on-site data or monitor and control the equipment in the factory. This combination enables efficient and low- cost production; immediate and appropriate responses to the condition of the production line is possible from anywhere.



Manjeera- Server P.4

Collection and saving of current data

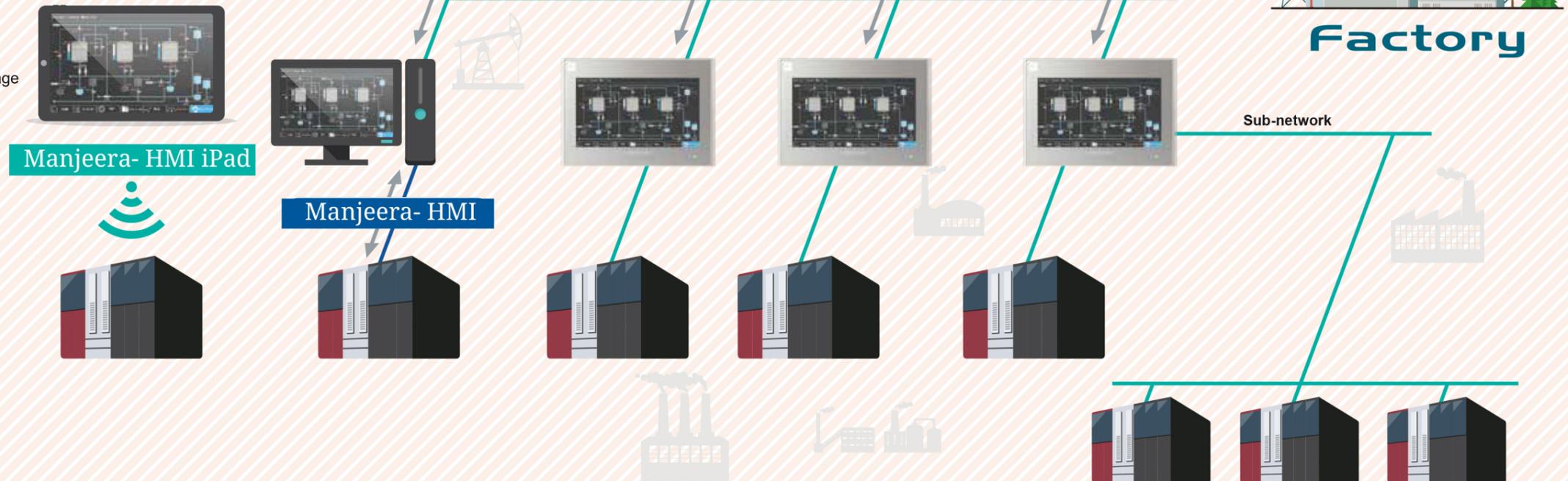
Linkage of a PC and MONITOUCH via Ethernet enables collection and saving of on-site data in real time.



Manjeera- Remote P.6

Remote monitoring and control

Installation of the Manjeera Scada and Manjeera-Server Software Package allows your PC to monitor and control the production site via MONITOUCH through Ethernet.

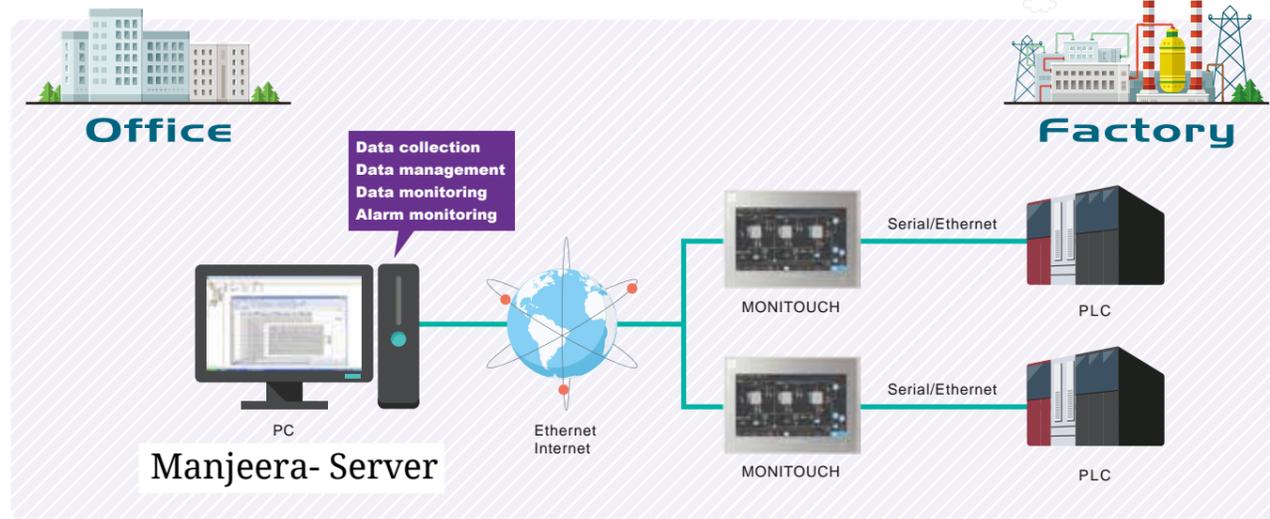


Manjeera- HMI P.7

MONITOUCH functions available on your PC/iPad

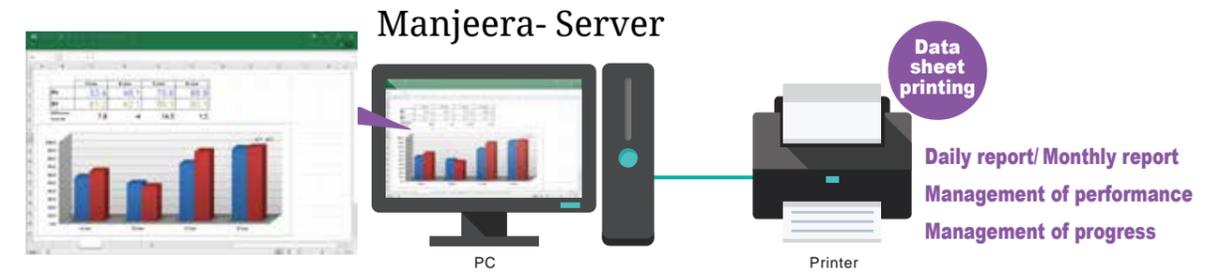
Equivalent functions of MONITOUCH are available on your PC or iPad by directly connecting to PLC after installing Manjeera software. It is possible to show a screen image on a large PC display and link various Windows applications. By using on iPad, the control panel becomes portable.

Linking your office and factory for collection of production data Manjeera- Server

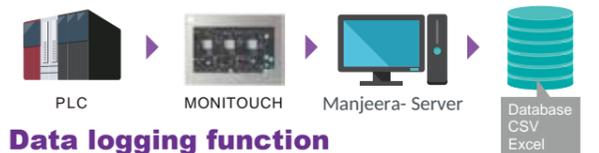


Easy to make daily and monthly reports (DDE function)

The tag data registered in Manjeera-Server can be pasted to Excel spreadsheet in DDE format. This makes it easy to generate daily/monthly reports.



Data saving without programming



Data logging function

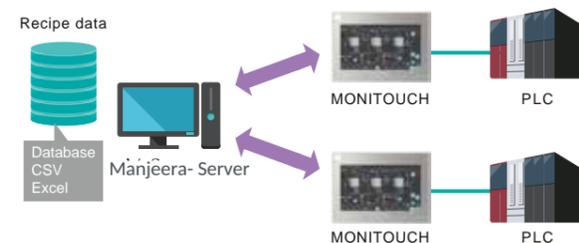
Production data can be regularly read out and saved in database or CSV/ Excel format.

Readout of sampling data

Sampling data stored in MONITOUCH can be read out and saved in database or CSV/ Excel format.

Consolidated recipe data management

Consolidation of recipe data by the host PC reduces the process of recipe registration and modification for each equipment and provides consistent production control.



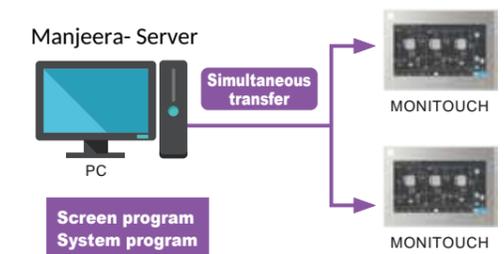
Quick response to on-site problems

Alarm data can be monitored to display historical data or a list of alarms currently occurring. In addition, an e-mail alert can be sent immediately when a critical alarm occurs.



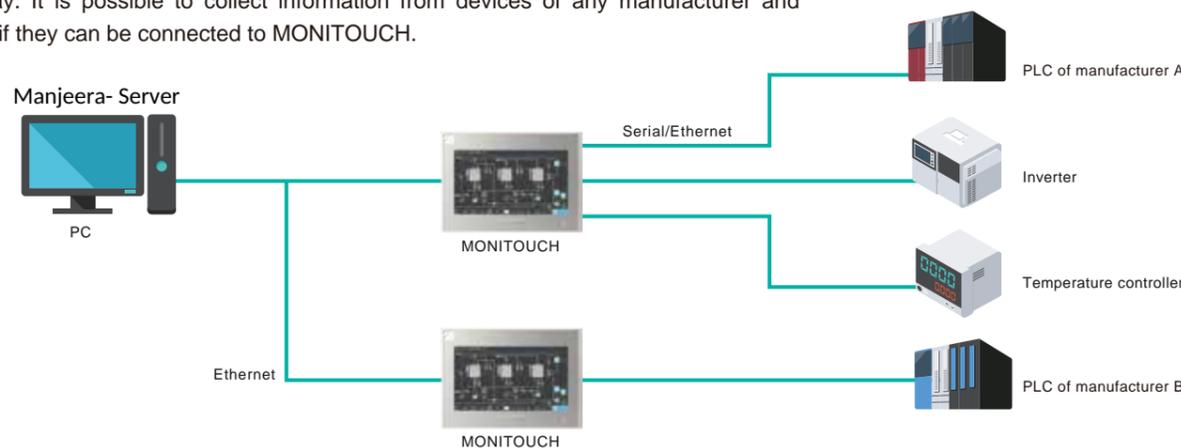
Updating of MONITOUCH data from the office

You can update the system program of multiple MONITOUCH panels at a time or transfer the screen program to them all together.



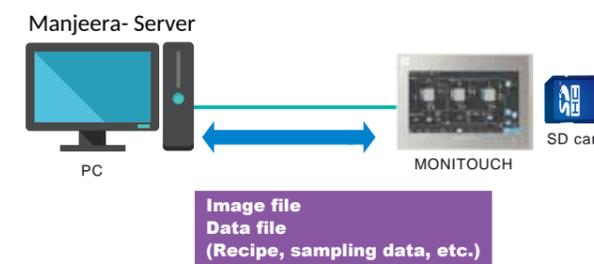
Consolidated data management for PLCs from various manufacturers and models

Manjeera-Server collects information from peripheral devices through MONITOUCH as a gateway. It is possible to collect information from devices of any manufacturer and model if they can be connected to MONITOUCH.



Reading and writing of stored data

Files on a SD card inserted in MONITOUCH can be read out to a PC, and files edited on a PC can be written onto a SD card via Ethernet.

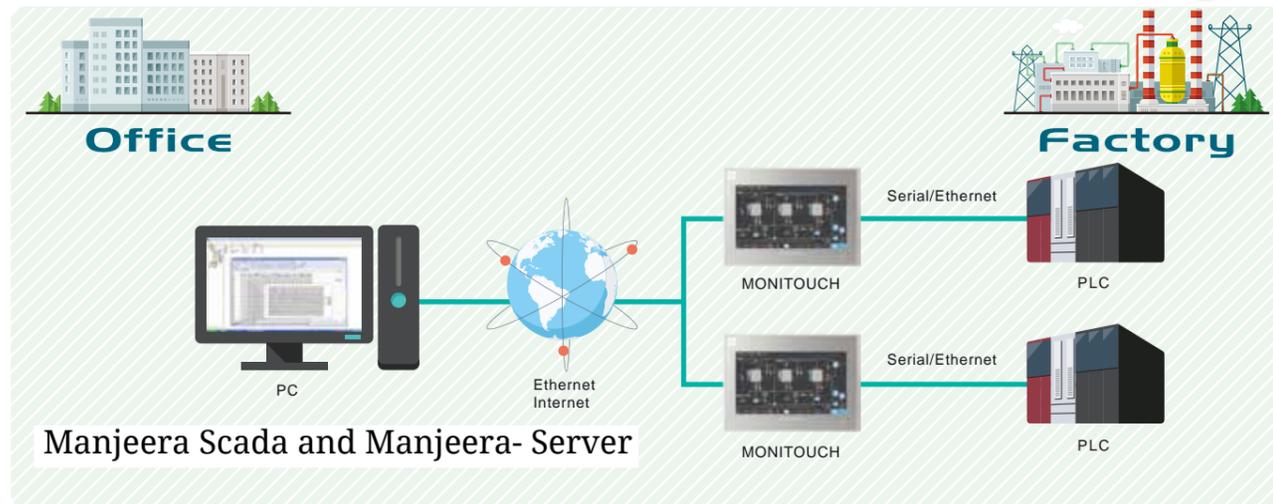


Automatic actions in response to events

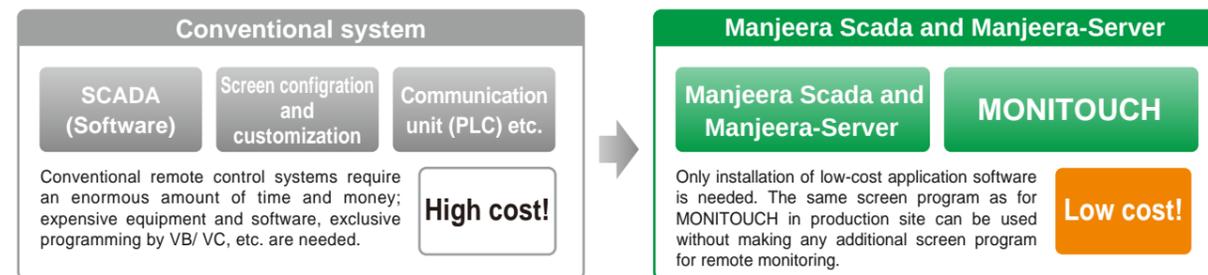
Various kinds of events can be set depending on the requirements of the operation. Events allow for a high degree of flexibility, so you can adapt to the specifications of the production line.

Event (Trigger conditions)		
Bit ON/OFF	Value comparison	Time setting
Action (Operations)		
Start/Stop of logging	Recipe read/write	Sampling readout
Application start-up	Stored data read/write	

Remote monitoring and control Manjeera Remote

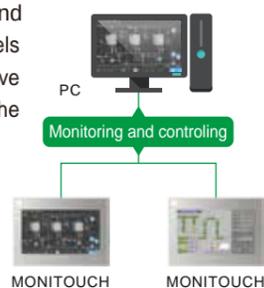


Remote control with excellent cost performance



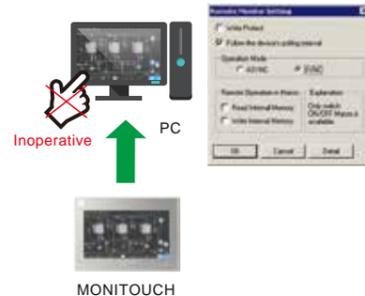
Monitoring and control of multiple units by one PC

Manjeera allows you to control and monitor multiple MONITOUCH panels with a single PC, which helps improve the operating efficiency and the cost-effectiveness.



Security functions against operation errors

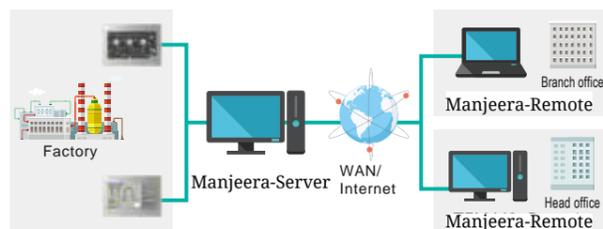
Security functions such as write-protect are provided to ensure safe and secure system operation.



Remote control by means of a simple system

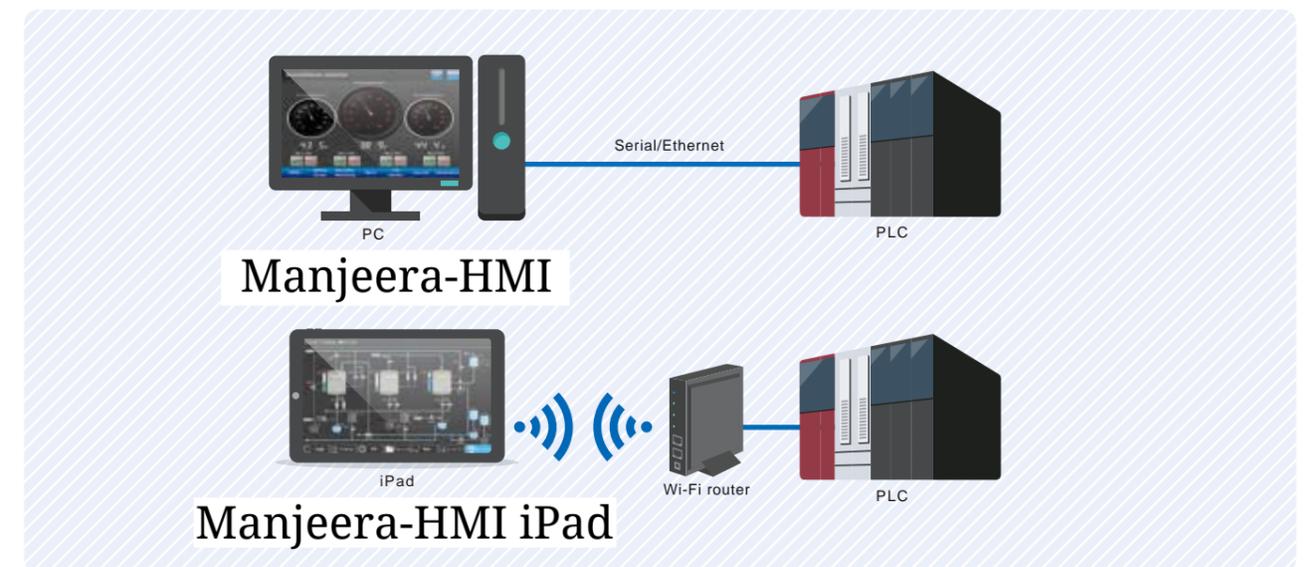
The system is compatible with various systems such as in-house LAN, Internet, WAN, etc.

- You can access the on-site screen via the Internet from a remote location.
- You can monitor overseas plants via WAN.



*It is necessary to modify the setting of firewall and routing for Internet access.

Realizing even higher performance with MONITOUCH by integrating PC/iPad into systems Manjeera-HMI



Install anywhere, even on your palm

Manjeera-HMI iPad

It enables new applications like controlling multiple machines with a single tablet or wirelessly operating a machine while visually monitoring where best.



*Manjeera-HMI iPad supports only Ethernet TCT/IP communications.

Easy selection of peripheral equipment

Manjeera-HMI

It is possible to connect peripheral equipment such as printers and mass storage media that have Windows drivers so that the data can be easily output or saved.



Large expandability combined with various applications

Manjeera-HMI

Processing of production data such as summary and analysis can be easily conducted using external software.

<p>Shutdown of OS</p> <p>OS can be shut down on Manjeera without displaying the shutdown menu.</p>	<p>Start-up of application</p> <p>Various applications can be run, including that for viewing a PDF of the troubleshooting manual.</p>	<p>Loading and execution of DLL functions</p> <p>DLL functions that were made individually can be loaded and executed on MANJEERA.</p>
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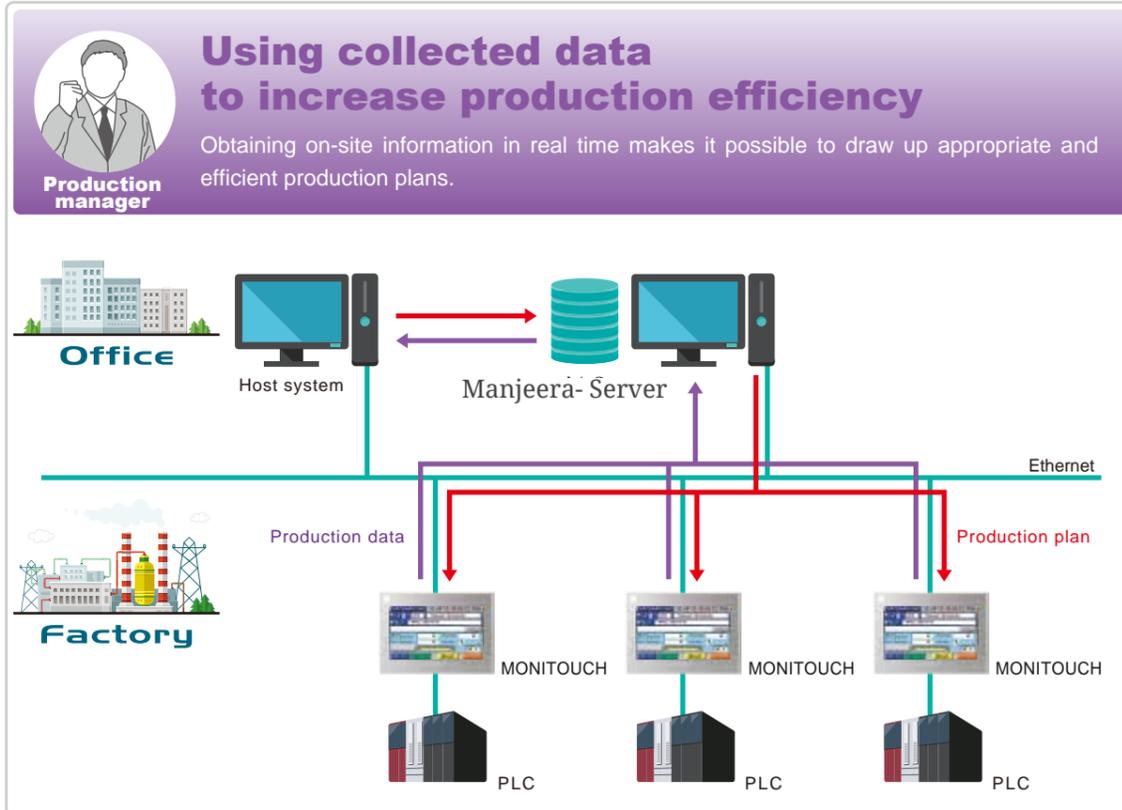
Advantages of using Manjeera Server

“I don't have to bother collecting data any more.”



Real-time collection of on-site production data

Production data can be collected in real time without distracting workers. Collected data can be used for reviewing production plans and improving production facilities.



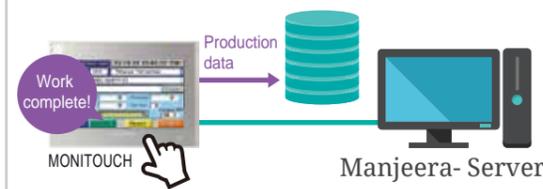
Using collected data to increase production efficiency

Obtaining on-site information in real time makes it possible to draw up appropriate and efficient production plans.



Sending reports upon completion of work

Daily reports are made automatically and accurately to reduce the burden on the production worker and errors.



Building a database of issues with ease

Data on operation stops and errors are analyzed to improve production facilities.



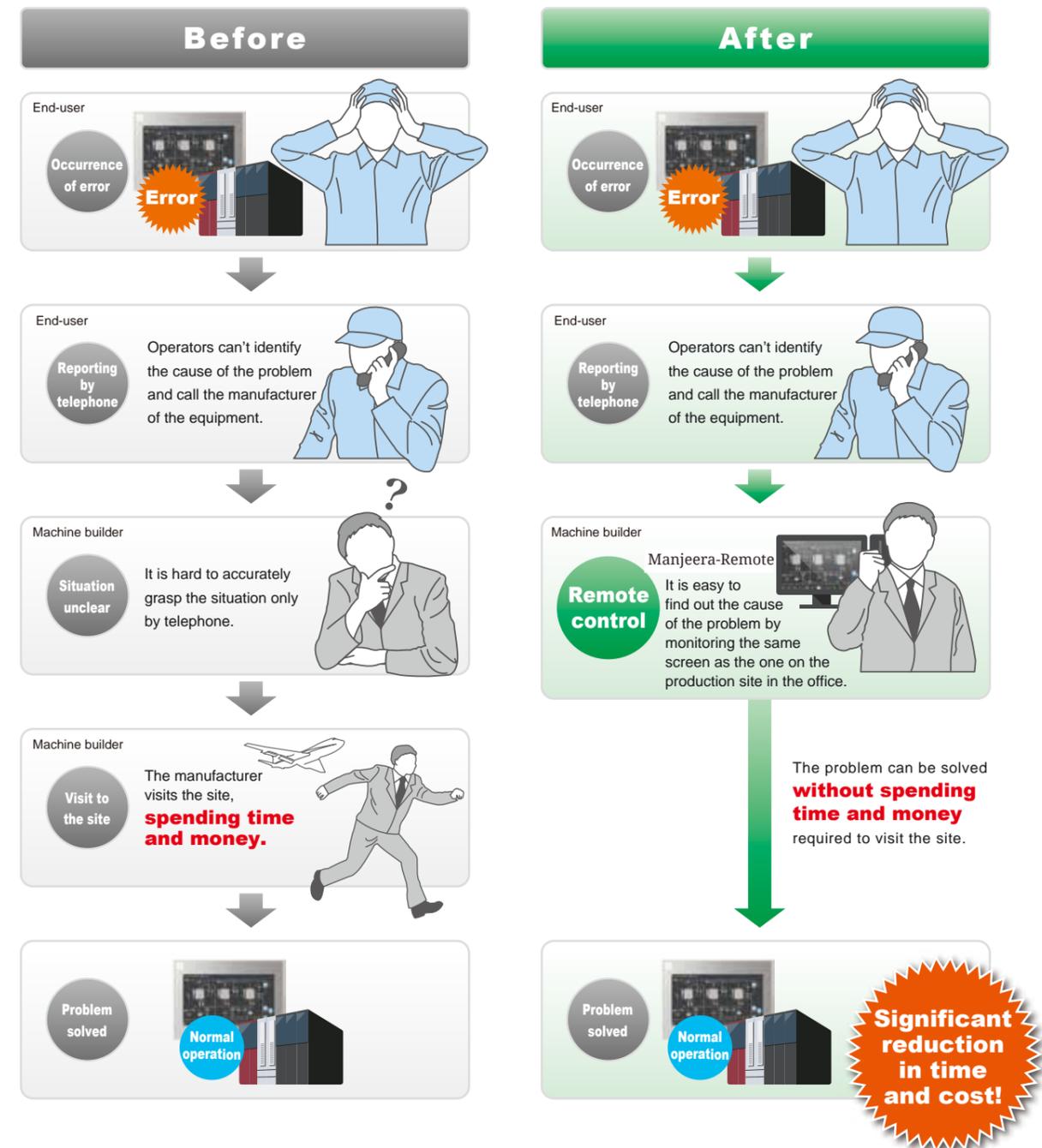
Advantages of using Manjeera Remote

“We can shorten the downtime.”



Troubleshooting in the office for quick recovery

Prompt response to problems is possible by controlling the production equipment remotely. Production efficiency is improved by shortening downtime, and there is no need to spend the time and money required to send a person to the production site.



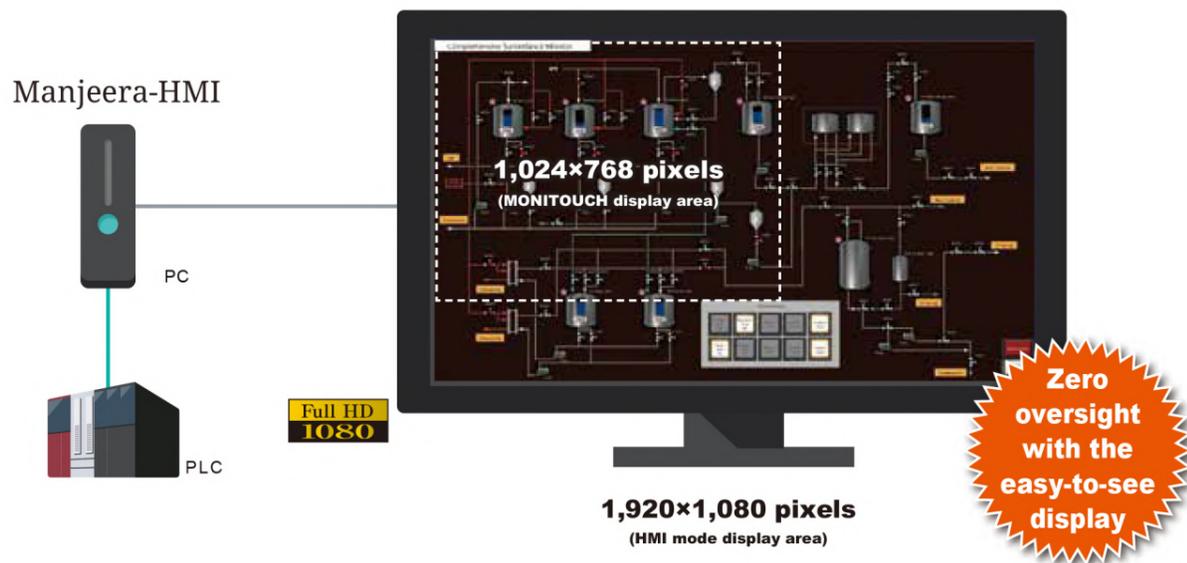
Advantages of using Manjeera-HMI

“I won’t miss a problem in production.”



An image of the entire production line can be displayed on one large screen.

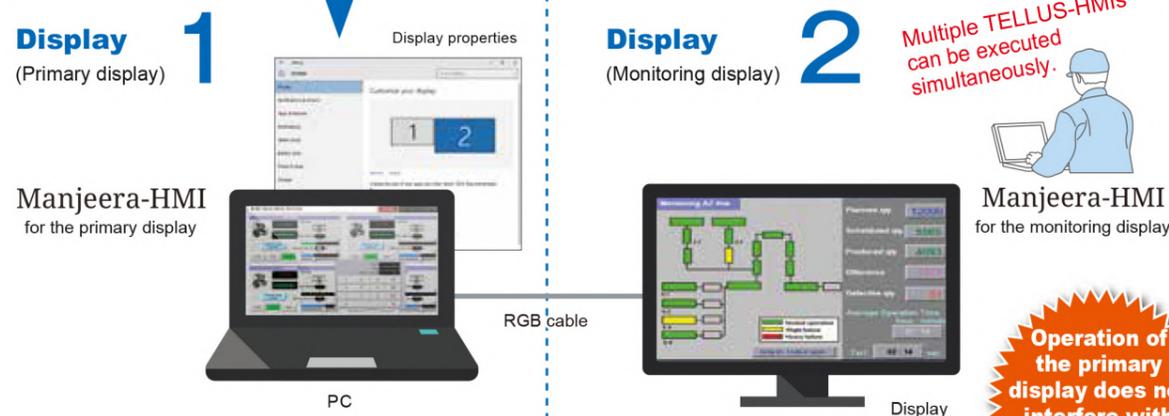
Equipping a PC with MONITOUCH functions makes it possible to have a large, full HD display. All operation processes can be displayed on one large screen.



Additional display only for monitoring is also available.

The dedicated MANJEERA screen only for monitoring can be displayed on a large display.

Run two MANJEERA-HMIs and indicate the data on separate displays.



Applicable Models & Operating Environment

● **Applicable Models**

V9 series
TS2000i series
TS1000 Smart series

● **Recommended Operating Environment (PC)**

Please ensure the following conditions are in place for the operations of Manjeera Scada and Manjeera-Server

PC	IBM PC/ AT compatible with Windows
OS	Windows 10 (32bit, 64bit)/ 8.1 (32bit, 64bit)/ 8 (32bit, 64bit)/ 7 (32bit, 64bit)/ Vista (32bit, 64bit)/ XP/XP64 Edition/ Server 2016/ Server 2012/ Server 2008 R2
CPU	Pentium IV 1GHz or more
Memory	256MB or more (When an emulator is used, 512 MB or more)
Hard disk	When Manjeera installed: 2.5 GB or more When Manjeera-Server installed: 2.5 GB or more
Display	Resolution: XGA 1024x768 or more Colors: High Color 16 bit or more

● **Configuration Software**

V-SFT-6	Configuration software for MONITOUCH and MANJEERA. You can easily create your own screen program as desired.
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● **Recommended Operating Environment (iPad)**

Applicable models Use iPads of the model and system versions shown below.

Model	System version
iPad	iPadOS13, iPadOS14

Resolution The iPad resolution differs depending on the model. Create the screen data at XGA (1024x768), then it becomes magnified on an iPad screen (same aspect ratio) automatically.

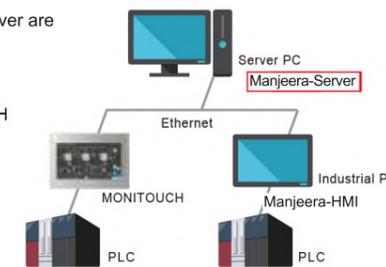
iPad model	Solution	Remarks
iPad Mini	2048x1536	iPad Mini 2 or later
iPad		iPad 3 or later
iPad Pro 10.5"	2224x1668	Incl. iPad Air 3
iPad Pro 11"	2388x1668	
iPad Pro 12.9"	2732x2048	

License Types One license is required for each device. There are five types of licenses for different uses. (License framed in red is equivalent to one license.)

1 Manjeera-Server

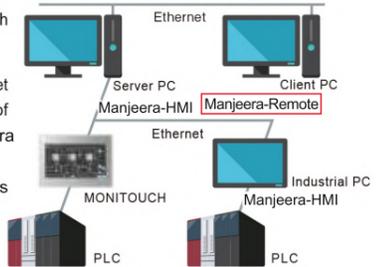
The functions of Manjeera-Server are carried out by the server PC.

- Readout/ writing of the recipe data for MONITOUCH (or Manjeera HMI)
- Alarm monitoring
- Event action
- Screen data transfer (excluding Manjeera HMI)



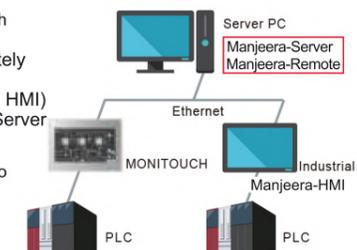
2 Manjeera-Remote

- A client PC equipped with Manjeera accesses Manjeera-Server on a server PC via Ethernet and operates the screens of MONITOUCH (or Manjeera HMI) remotely.
- HMI communication is also possible.



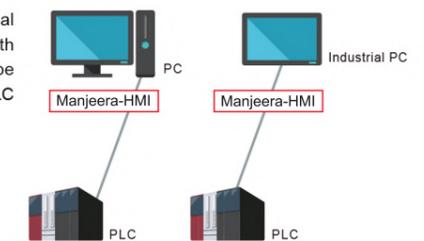
3 Manjeera Scada and Manjeera-Server

- A server PC equipped with Manjeera Scada and Manjeera-Server can remotely control the screens of MONITOUCH (or Manjeera HMI) while conducting Manjeera-Server functions
- HMI communication is also possible.



4 Manjeera-HMI

- A PC (or Industrial PC) equipped with Manjeera-HMI can be connected with a PLC like MONITOUCH.



5 Manjeera-HMI iPad

- iPad performs communications equivalent to the Manjeera series* by connecting to a PLC wirelessly.

* Only models capable of Ethernet (TCP/IP) communication can connect.



License Validation There are two types of licenses: Password type and USB license type.

USB license key

- Manjeera-HMI USB Key
- Manjeera-Remote USB Key
- Manjeera and V-Server USB Key

Password validation

- Manjeera-HMI/ Manjeera-HMI iPad
- Manjeera-Remote
- Manjeera Scada and Manjeera-Server
- Manjeera-Server

License Validation

License validation is restricted to one license per device. There are five types of licenses, one for each function (See above). Check the type of license for the function(s) you wish to use it for.

Note*: When reinstalling the application software on the same computer, the same password is valid. However, if you initialize the OS or change the device to use the application software, the password becomes invalid. In this case, you must go through the license validation procedure again to get a new password.

*Excluding the cases of using a USB license key

PLC models compatible with MANJEERA

Manufacturer	Models	V9 series V8 series TS2060i	TS2060	V7 series	Manjeera Ver.4			Manjeera Ver.3		
					Manjeera HMI		Manjeera HMI iPad	Manjeera HMI		Manjeera Remote & Manjeera Server
					1:1	1:n	1:1/1:n	1:1	1:n	
Fuji Electric	MICREX-F series	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MICREX-F series V4 Compatible	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MICREX-F Link	✓	✓	✓	✓	✓	✓	✓	✓	✓*16
	MICREX-F Link V4 Compatible	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SPB(N mode)&FLEX-PC series	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SPB(N mode)&FLEX-PC CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FLEX-PC COM(T)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FLEX-PC(T)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FLEX-PC CPU(T)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FLEX-PC(OPCN-1)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MICREX-SX(Tlink)	✓	✓	✓*12	✓	✓	✓*13	✓	✓	✓*13,12,16
	MICREX-SX(OPCN-1)	✓*12	✓	✓*12	✓	✓	✓*13,12	✓	✓	✓*13,12,16
MICREX-SX(SX bus)	✓	✓	✓*12	✓	✓	✓*13	✓*12	✓	✓*13,12	
MICREX-SX SPH/SPB/SPM/SPF series	✓	✓	✓*12	✓	✓	✓*13	✓*12	✓	✓*13,12	
MICREX-SX SPH/SPB/SPM/SPF CPU	✓	✓	✓*12	✓	✓	✓*13	✓*12	✓	✓*13,12	
MICREX-SX(Ethernet)	✓	✓	✓*12	✓	✓	✓*13	✓*12	✓	✓*13,12	
AAC Protocol	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Adept Allen-Bradley	PLC-5	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PLC-5(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SLC500	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SLC500(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	NET-ENI/SLC500 Ethernet TCP/IP	✓	✓	✓	✓	✓	✓	✓	✓	✓
	NET-ENI/MicroLogix Ethernet TCP/IP	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Micro Logix	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Micro Logix(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Control Logix/Compact Logix	✓	✓	✓	✓	✓	✓*2	✓	✓	✓*2
	Control Logix(Ethernet)	✓	✓	✓	✓	✓	✓*2	✓	✓	✓*2
	Micro800 Controllers	✓	✓	✓	✓	✓	✓*2	✓	✓	✓*2
	Micro800 Controllers(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓*2	✓	✓	✓*2
Automationdirect	Direct LOGIC	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Direct LOGIC(K-Sequence)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Direct LOGIC(Ethernet UDP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Azbil	Direct LOGIC(Modbus RTU)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MX series	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DMC50(CTRL)	✓9	✓9	✓	✓	✓	✓	✓	✓	✓
Baldor Baumuller Beckhoff	Mint	✓	✓	✓	✓	✓	✓	✓	✓	✓
	BMx-PLC	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ADS Protocol(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
CIMON	Tag ADS Protocol(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	BP Series	✓	✓	✓	✓	✓	✓	✓	✓	✓
	CP Series	✓	✓	✓	✓	✓	✓	✓	✓	✓
DELTA	XP Series	✓	✓	✓	✓	✓	✓	✓	✓	✓
	S Series	✓	✓	✓	✓	✓	✓	✓	✓	✓
	S Series(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
EATON Cutler-Hammer	CP3E	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DVP series	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DVP-SE(MODBUS ASCII)	✓	✓	✓	✓	✓	✓	✓	✓	✓
EMERSON FANUC FATEK AUTOMATION	DVP-SE(MODBUS TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ELC	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E10/E20/E20H (MODBUS RTU)	✓	✓	✓	✓	✓	✓	✓	✓	✓
FESTO FUFENG GE Fanuc	Power Mate	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FACON FB series	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FEC	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hitachi	APC Series Controller	✓	✓	✓	✓	✓	✓	✓	✓	✓
	90 series	✓	✓	✓	✓	✓	✓	✓	✓	✓
	90 series(SNP-X)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hitach Industrial Equipement Systems	90 series(SNP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	90 series(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	R31(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Honeywell	HIDIC-S10(2alpha, S10mini)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	HIDIC-S10/4alpha	✓	✓	✓	✓	✓	✓	✓	✓	✓
	HIDIC-S10/ABS	✓	✓	✓	✓	✓	✓	✓	✓	✓
HYUNDAI	HIDIC-S10(OPCN-1)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	HIDIC-S10V	✓	✓	✓	✓	✓	✓	✓	✓	✓
	HIDIC-S10V(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
IODEC	HIDIC-H	✓	✓	✓	✓	✓	✓	✓	✓	✓
	HIDIC-H(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	HIDIC-EHV	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jetter JTEKT	HIDIC-EHV(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Universal Modbus RTU	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Universal Modbus TCP/IP(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
KEYENCE	H15 Robot(MODBUS RTU)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	H14 Robot(MODBUS RTU)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MICRO3	✓	✓	✓	✓	✓	✓	✓	✓	✓
KOYO ELECTRONICS	MICRO Smart	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MICRO Smart Penra	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MICRO Smart(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
LS	JetControl Series2/3(Ethernet UDP/IP)	✓*17	✓	✓	✓	✓	✓	✓	✓	✓
	TOYOPUC	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TOYOPUC(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	TOYOPUC(Ethernet PC10Mode)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TOYOPUC-Plus	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TOYOPUC-Plus(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	TOYOPUC-Nano(Ethernet)	✓	✓	✓	✓	✓*21	✓	✓	✓	✓
	K2 series link	✓	✓	✓	✓	✓	✓	✓	✓	✓
	K2-AS00 CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	K2/KV series CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
	K224/300 CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KV10/24 CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	KV-700	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KV-700(Ethernet UDP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KV-700(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	KV-1000	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KV-1000(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KV-3000/5000	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	KV-3000/5000(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KV-7000/8000(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KV Nano	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	KV Nano(Ethernet TCP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SU/SG	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SR-T	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	SR-T(K prt)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SU/SGR-Sequence	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SU/SGI(Modbus RTU)	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	MASTER-K10/60/200	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MASTER-K500/1000	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MASTER-Kxxx	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	MASTER-Kxxx CNET	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MASTER-K series(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	GLOFA CNET	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	GLOFA GM7 CNET	✓	✓	✓	✓	✓	✓	✓	✓	✓
	GLOFA GM series CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
	GLOFA GM series(Ethernet UDP/IP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	GLOFA GM series(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	XGT/XGK series CNET	✓	✓	✓	✓	✓	✓	✓	✓	✓
	XGT/XGK series CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	XGT/XGK series(Ethernet)	✓	✓	✓	✓	✓*21	✓	✓	✓	✓
	XGT/XG series CNET	✓	✓	✓	✓	✓	✓	✓	✓	✓
	XGT/XG series CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	XGT/XG series(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	A series link	✓	✓	✓	✓	✓	✓	✓	✓	✓
	A series CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	A series(OPCN-1)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	QnA series link	✓	✓	✓	✓	✓	✓	✓	✓	✓
	QnA series CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	QnA series(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	QnH(Q) series link	✓	✓	✓	✓	✓	✓	✓	✓	✓
	QnH(A) series CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	QnH(Q) series CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
	QnU series CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Q00/00/01 CPU	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	QnH(Q) series(Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	QnH(Q) series link (Multi CPU)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	QnH(Q) series (Multi CPU) (Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
MITSUBISHI ELECTRIC	QnH(Q) series CPU (Multi CPU)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	QnH(Q) series(Ethernet ASCII)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	QnH(Q) series (Multi CPU) (Ethernet ASCII)	✓	✓	✓						

Temperature controllers, Servos and Inverters compatible with MANJEERA

Manufacturer	Models	V9 series V8 series TS20601	TS2060	V7 series	Manjeera Ver.4			Manjeera Ver.3	
					Manjeera HMI	Manjeera HMI iPad	Manjeera-Remote Manjeera-Server	Manjeera HMI	Manjeera-Remote Manjeera-Server
Fuji Electric	PXX(MODBUS RTU)	✓	✓	✓	-	-	-	-	-
	PYH	✓	-	-	-	-	-	-	-
	PXR(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	PXF(MODBUS RTU)	✓	✓	-	✓	-	-	-	-
	PXG(MODBUS RTU)	✓	✓	-	✓	-	-	-	-
	PXH(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	PJM(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	F-MPC04P(Loader)	✓	✓	-	✓	-	-	-	-
	F-MPC Series /FePSU	✓	✓	✓	✓	-	-	-	-
	FVR-E11S	✓	✓	✓	✓	-	-	-	-
	FVR-E11S(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FVR-C11S	✓	-	✓	-	-	-	-	-
	FVR-C11S(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FRENIC500G11S/P11S	✓	✓	✓	✓	-	-	-	-
	FRENIC500G11S/P11S(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FRENIC500V7S	-	-	✓	-	-	-	-	-
	FRENIC500V7S(MODBUS RTU)	-	-	✓	-	-	-	-	-
	FRENIC-Ace(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FRENIC-Eco(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FRENIC-HVAC/AQUA(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FRENIC-MEGA(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FRENIC-MEGA SERVO(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FRENIC-Mini(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FRENIC-Multi(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FRENIC-VG1(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FRENIC-Series (Loader)	✓	✓	✓	✓	-	-	-	-
	HFR-C9K	✓	✓	✓	✓	-	-	-	-
	HFR-C11K	✓	✓	✓	✓	-	-	-	-
	HFR-K1K	✓	✓	✓	✓	-	-	-	-
	PPMC(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FALDIC-alpha series	✓	✓	✓	✓	-	-	-	-
	FALDIC-W series	✓	✓	✓	✓	-	-	-	-
	PH series	✓	✓	✓	✓	-	-	-	-
	PHR(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	WA5000	✓	✓	✓	✓	-	-	-	-
	APR-N(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	ALPHAS (MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	ALPHAS Smart (MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	ALPHA7 (MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	WE1MA(Ver.A)(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	WE1MA(Ver.B)(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	WSZ series	✓	✓	✓	✓	-	-	-	-
	WSZ series(Ethernet)	✓	-	✓	✓ ^{*3}	-	-	-	-
Agilent	4263 Series	✓	-	-	-	-	-	-	-
Azbil	SDC10	✓	✓	✓	✓	-	-	-	-
	SDC15	✓	✓	✓	✓	-	-	-	-
	SDC20	✓	✓	✓	✓	-	-	-	-
	SDC21	✓	✓	✓	✓	-	-	-	-
	SDC25/26	✓	✓	✓	✓	-	-	-	-
	SDC30/31	✓	✓	✓	✓	-	-	-	-
	SDC35/36	✓	✓	✓	✓	-	-	-	-
	SDC35/46	✓	✓	✓	✓	-	-	-	-
	SDC40A	✓	✓	✓	✓	-	-	-	-
	SDC40G	✓	✓	✓	✓	-	-	-	-
	DMC10	✓	✓	✓	✓	-	-	-	-
	DMC50(CTRL)	*1	*1	✓	*1	-	-	-	-
	DMC50(COM)	✓	✓	✓	✓	-	-	-	-
	AHC2001	✓	✓	✓	✓	-	-	-	-
	AHC2001+DCP31/32	✓	✓	✓	✓	-	-	-	-
	DCP31/32	✓	✓	✓	✓	-	-	-	-
	NX(CPL)	✓	✓	✓	✓	-	-	-	-
	NX(Modbus RTU)	✓	✓	✓	✓	-	-	-	-
	NX(Modbus TCP/IP)	✓	✓	✓	✓	-	-	-	-
A&D	A04402(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	A04404(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
Banner	PresencePLUS(Ethernet/IP(TCP/IP))	✓	✓	✓	✓	-	-	-	-
Bosch Rexroth	IndraDrive	✓	✓	✓	✓	-	-	-	-
CHINO	DZ1000(MODBUS RTU)	-	-	✓	-	-	-	-	-
	DZ2000(MODBUS RTU)	-	-	✓	-	-	-	-	-
	KP1000	✓	✓	✓	✓	-	-	-	-
	LT400 Series(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	DP1000	✓	✓	✓	✓	-	-	-	-
	DB1000	✓	✓	✓	✓	-	-	-	-
	DB1000B(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	KR2000(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	LT230(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	LT300(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	LT330(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	VL1 series	-	-	✓	-	-	-	-	-
Danfoss	PMAC	✓	✓	✓	✓	-	-	-	-
DELTA TAU DATA SYSTEMS	PMAC(Ethernet TCP/IP)	✓	✓	✓	✓	-	-	-	-
EUROTHERM	2400 series (MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
FATEK AUTOMATION	FACON FBs series(Ethernet)	✓	✓	✓	✓ ^{*3}	-	-	-	-
Gammaflux	ITC2100	✓	✓	✓	✓	-	-	-	-
	G24(Ethernet TCP/IP)	✓	✓	✓	✓	-	-	-	-
HBM	FT/5 AD103	✓	✓	✓	✓	-	-	-	-
Hitachi Industrial Equipment Systems	SJ300 series	✓	✓	✓	✓	-	-	-	-
	SJ700 series	✓	✓	✓	✓	-	-	-	-
	L300P series	✓	✓	✓	✓	-	-	-	-
	SJ Series P1(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
Honeywell	Universal Modbus RTU	-	-	✓	-	-	-	-	-
	DC1000	-	-	✓	-	-	-	-	-
IAI	Super SEL Controller	✓	✓	✓	✓	-	-	-	-
	X-SEL Controller	✓	✓	✓	✓	-	-	-	-
	ROBO CYLINDER(RCP2/ERC)	✓	✓	✓	✓	-	-	-	-
	ROBO CYLINDER(RCS)	✓	✓	✓	✓	-	-	-	-
	ROBO CYLINDER(RCS/E-CON)	✓	✓	✓	✓	-	-	-	-
	TR-C1	✓	✓	✓	✓	-	-	-	-
	PCON/ACON/SCON(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
KEYENCE	DL-RS1AISK-1000	✓	✓	✓	✓	-	-	-	-
Koatsu Gas Kogyo	R-BLT	✓	✓	✓	✓	-	-	-	-
Koganei	IBFL-TC	✓	✓	✓	✓	-	-	-	-
	ABSRCX/ABSRCX	✓	✓	✓	✓	-	-	-	-
	ABPRC	✓	✓	✓	✓	-	-	-	-
Lenze	Servo Drive 9400(Ethernet TCP/IP)	✓	✓	✓	✓	-	-	-	-
LS	IS5	✓	✓	✓	✓	-	-	-	-
	IG5	✓	✓	✓	✓	-	-	-	-
	LGRF-H Reader	✓	✓	✓	✓	-	-	-	-
MITSUBISHI ELECTRIC	FR-*500	✓	✓	✓	✓	-	-	-	-
	FR-V500	✓	✓	✓	✓	-	-	-	-
	MR-J2S-*A	✓	✓	✓	✓	-	-	-	-
	MR-J2S-*CL	✓	✓	✓	✓	-	-	-	-
	MR-J2S-*CP	✓	✓	✓	✓	-	-	-	-
	MR-J3-*A	✓	✓	✓	✓	-	-	-	-
	MR-J3-*T	✓	✓	✓	✓	-	-	-	-
	MR-J4-*A	✓	✓	✓	✓	-	-	-	-
	FR-*700(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	FR-E700	✓	✓	✓	✓	-	-	-	-
MOOG	J124-04x series	✓	✓	✓	✓	-	-	-	-
M-SYSTEM	R1M series (MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	R5 series (MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
NIKKI DENSO	SOB-6432B	✓	✓	✓	✓	-	-	-	-
NITTOKU	ITS-HRV110	✓	✓	✓	✓	-	-	-	-
OHKURA	EC500S	✓	✓	✓	✓	-	-	-	-
	EC5800	✓	✓	✓	✓	-	-	-	-
	EC5600S	✓	✓	✓	✓	-	-	-	-
	EC5900A	✓	✓	✓	✓	-	-	-	-

✓: Supported - : Not supported
 Note : TEMP_CTL macro command is not available for Remote mode.
 *1: Integrated to DMC50(COM). *2: V8 series not supported. *3: Select "LAN(TCP)" for [Target Port No.] in the [Connection Device Selection] settings.

Manufacturer	Models	V9 series V8 series TS20601	TS2060	V7 series	Manjeera Ver.4			Manjeera Ver.3	
					Manjeera HMI	Manjeera HMI iPad	Manjeera-Remote Manjeera-Server	Manjeera HMI	Manjeera-Remote Manjeera-Server
OMRON	ESAK	✓	✓	✓	✓	-	-	-	-
	ESAK-T	✓	✓	✓	✓	-	-	-	-
	ESAN/ESEN/ESCN/ESGN	✓	✓	✓	✓	-	-	-	-
	ESAR/ESER	✓	✓	✓	✓	-	-	-	-
	ESCC/ESEC/ESAC/ESDC/ESGC	✓	✓	✓	✓	-	-	-	-
	ESCK	✓	✓	✓	✓	-	-	-	-
	ESCK-T	✓	✓	✓	✓	-	-	-	-
	ESCN-HT	✓	✓	✓	✓	-	-	-	-
	ESEK	✓	✓	✓	✓	-	-	-	-
	ESEK-T	✓	✓	✓	✓	-	-	-	-
	ES2D	✓	✓	✓	✓	-	-	-	-
	ES2E	✓	✓	✓	✓	-	-	-	-
	ES2N	✓	✓	✓	✓	-	-	-	-
	V600/620/680	✓	✓	✓	✓	-	-	-	-
	3G3M(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	KM20	✓	✓	✓	✓	-	-	-	-
	KM100	✓	✓	✓	✓	-	-	-	-
	V680S(Ethernet TCP/IP)	✓	✓	✓	✓	-	-	-	-
	EJ1	✓	✓	✓	✓	-	-	-	-
Orientalmotor	High-efficiency AR Series(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
	CRK Series(MODBUS RTU)	✓	✓	✓	✓	-	-	-	-
Panasonic	MINAS A4 Series	✓	✓	✓	✓	-	-	-	-
	LP-200/LP-F10	✓	✓	✓	✓	-	-	-	-
	LP-300	✓	✓	✓	✓	-	-	-	-
	LP-400								

EXISTING LIST OF END USERS





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