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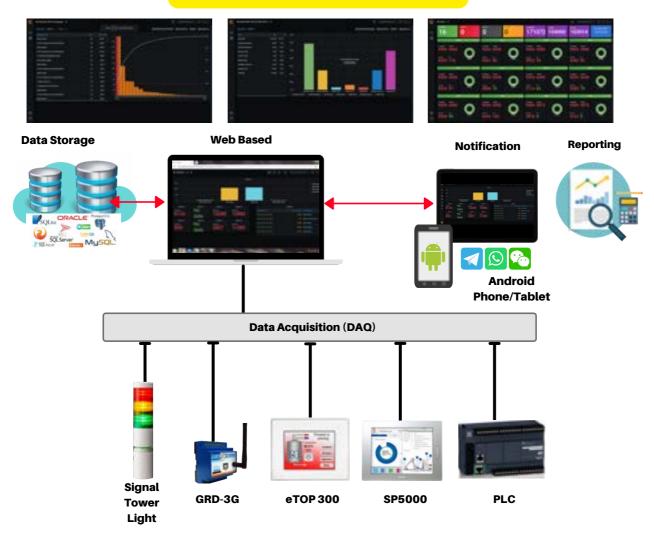
- TAYLOR HOBSON
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Software for Manufacturing Analytix in Real Time (SMART) 4.0 is a fully customizable and adaptable solution where customers require insight into what is happening in their shop floor.

With over 15 years of experience in solving manufacturer's data connectivity, we have come a long way in creating SMART 4.0 platform that uses the latest technology in IOT.

Architecture Smart 4.0





BENEFITS AND FEATURES SMART 4.0



DASHBOARD SMART 4.0





SMART 4.0 consist of the following modules:



Dynamic dashboard

Collaborate and share shop floor information across various department. Aligns objective and goals easily with clear representation of expectation and results.



Analytix and Reporting Engine

Supports key decision makers with insightful data from the shopfloor. Identify operation baseline, daily, weekly trends, key losses and many more. User defined reporting that can be published, shared and digitally documented.



User Interface

Customized web based user interface for parameter, machine, production and maintenance entry or remarks



Data Storage

Distributed or centralized database engine. Uses MS SQL or Postgre SQL as standard. Different SQL can be accommodated upon request.



Data Acquisition Module

Interface to machine directly using serial, Ethernet or Wireless Solution. Reads machine information on demand in real-time



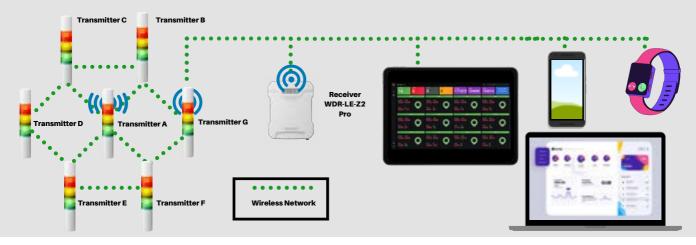
ANDON SYSTEM FOR MANUFACTURING

Andon systems are traditionally implemented as an alert and notification to notify problem in the shop floor requires urgent attention.

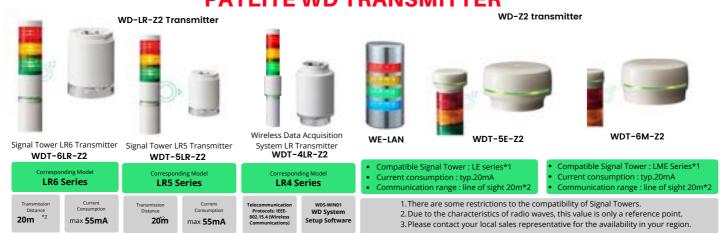
Alerts are displayed on a big display and placed on key areas that can be visually seen by all parties concerned.

SMART 4.0 enhances this further by tracking the time to resolve various problem and monitor the Overall Equipment Effectiveness (OEE) all in a single solution.

PATLITE WIRELESS ARCHITECTURE



PATLITE WD TRANSMITTER



PATLITE WD RECEVIER ADVANTAGES

Real-time Equipment Status Collection

Real-time Equipment Status Display on Andon Screen



Quality of wireless connection Diagnostics

Collaboration functions including Modbus/TCP and MySQL Database



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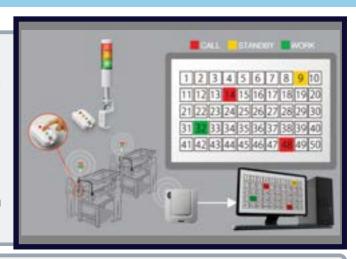


BEFORE

Maintenance calls from manual assembly stations are only visually displayed on signal towers. When a supervisor is away from a station or site, delays and production bottlenecks occur.

AFTER

With the WD installed in workstation, supervisors can now receive email alerts for maintenance calls when away from the site, greatly reducing bottlenecks.



| MACHINE | MACH

BEFORE

No system in place to remotely monitor machines in real time. Goal is to share productivity among all facilities to improve company wide productivity.

AFTER

The WD system allows monitoring of all lines in multiple locations and in real-time. Workers are able to better understand how their efforts affect the bigger picture improving company productivity.

BEFORE

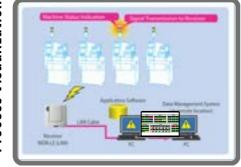
Production bottlenecks caused by machine down time and uneven production flow are surmounting. To address this issue, employees are creating daily machine reports which are tedious and inaccurate.

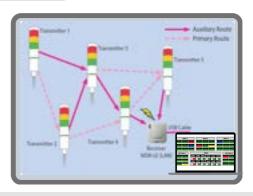
<u>AFTER</u>

The WD system enables us to monitor out line in realtime, quickly identify bottlenecks and address them. The PATLITE process can also determine the severity of machine issues for more effective predictive maintenance.



Process Visualizatior







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OVERALL EQUIPMENT EFFECTIVENESS (OEE)

SMART 4.0 OEE module can be implemented across various discrete and continuous manufacturing lines. SMART 4.0 helps customers to identify hidden losses and takes a pro-active approach to reduce these losses and translate it into productive manufacturing time



Six Big Losses in Manufacturing

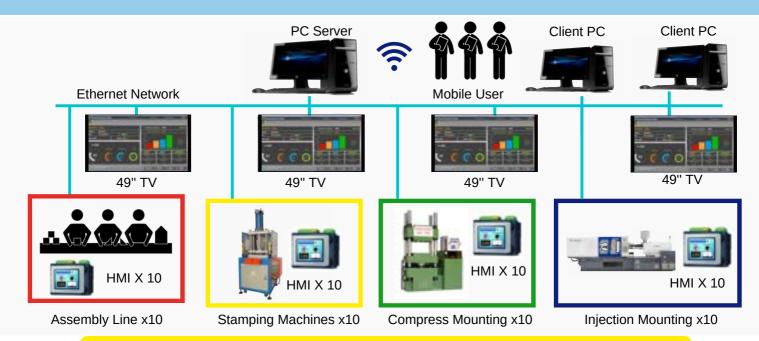








OVERALL ARCHITECTURE OF PRODUCTION MONITORING SYSTEM USING HMI/PLC/CUSTOMISED SOFTWARE



FEATURES AND FUNCTIONALITIES OF SMART FACTORY SOLUTION:

- Live View of Shop-floor
- Task Manager
- Secure access as per the roles and responsibilities
- Tool Setup Option
- Digital Work Instruction by ballooning drawing
- First-off Inspection Approval
- Operator Dashboard
- Escalation Matrix System Alarms for accounting losses
- Shift hand-over notes

- Live dashboard
- Live Machine Performance
- OEE trend
- Availability trend
- Productivity trend
- Quality trend
- Live Production Report
- Live losses for downtime
- Live Productivity Report
- Operator Performance Report
- Overall OEE
- Advance documentation in a centralized platform

BENEFITS OF SMART FACTORY SOLUTION

- Improve productivity, transparency and capacity utilization. The transparency of the system allows you to acutely understand issues by getting real time information.
- Production increases by making better decisions driven by data, enabling better, real-time communication between management and the shop floor.
- Real-time production level notifications
- Live feedback of employee/operator performance.
- Eliminates manual data input.
- Improve on-time delivery.







Process Visualisation



Visualize Lost Time in Cell Production

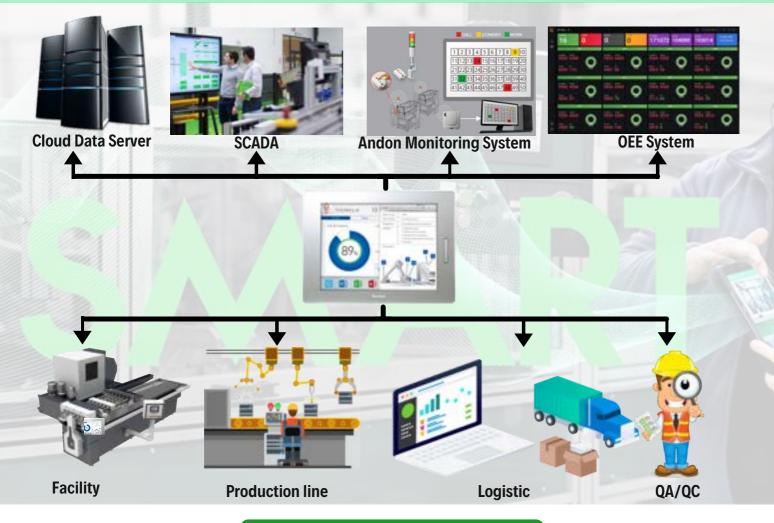












Human Machine Interface (HMI)













SP5000 Series

SP5000X Series

STW6000 Series

ST6000/ST6000E **Series**

STM6000 Series

ET6000 Series



GP4100 Series (Compact)



GP4000R Series (Rear Mount)



GP4000E Series



GP4000 Series (Standard)



GP4000M Series (Modular)





ST6000 SERIES - ACHIEVE A HIGH LEVEL OF VISUALIZATION WITH THE NEW BASIC HMI





BLUE Versatile Software

10" Wide (WSVGA) 7" Wide (WVGA) 4" Wide (WQVGA) 12" Wide (WXGA)

Revolution new software

BLUE will offer an alternative experience in hardware design. Anyone can easily create and change dynamic screens allowed for gesture operation. BLUE will provide a ground-breaking versatile design style. Features :-









Aluminum Front Panel

16 Million Colors

Better Graphics and Font *only BLUE

Easy Customization







Color Set and Coveter *only BLUE

Multi-screen *only BLUE

Assist HMI Screen creation *only BLUE







Responsive Behavior (Dock Panel) *only BLUE

Easy Installation Pro-face connectivity *only BLUE









Easy Access to User Manual Easy Migration *only GP-Pro EX

Secure remote access solution















Pro-face BLUE Open Studio is a development and runtime software that incorporates all of the tools users need to create SCADA HMI applications, dashboards and OEE interfaces.



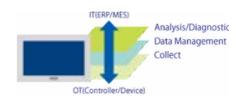
Basic Features

Scripting	Animation	Recipes	Email (SMTP)
Security	Database	Multi-fourth	FTP
Symbols	Events	Reports	Histrical Performance
Tags Catabase	Graphic and Design Tools	Scalable	POF Export
Troubleshooting	Trends	Schedular	SSt. Support for Email
Gestures	Multi-Language	OPC	DOE Client
Alares	ActiveX and NET	Intellectual Property Protection	Custom Vilagets







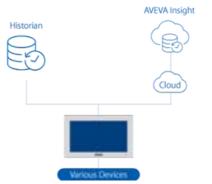


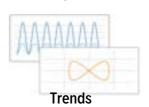
Remote Access

FDA 21 CFR PART 11

Database/OPC







Historian

 BLUE Open Studio includes support for saving historical data from some task worksheets to a Historian database or AVEVA Insight.

Custom Widget

Custom Widgets provides the ability to integrate third-party web-based controls into the HMI/SCADA project screens.

Connectivity

- 250+ available communication drivers for PLCs and many other devices.
- Native OPC interfaces such as OPC UA/DA
- · Active X and .Net controls
- Support upper connectivity to DB through MQTT.







PS5000 Series – Industrial PC



MODULAR TYPE



Consisting of the Box and the Display module in a range of sizes from 12 to the ultra-large 22 inches. Flexibly change the functions and sizes.

Display Size:



SLIM TYPE



Panel-integrated type – drastically slimmer profile with less wasted space and high performance retained featuring optimized design for equipment that requires space-saving.

Display Size:

CPU Size:

Basic Features



Connectivity



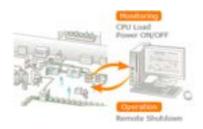
Variety of interface



Remote debugging for reduced labor at start-up



Reliability Cybersecurity



Remote System Status Monitoring and Control



Compatible panel cut out



Intuitively operable multi-touch display



High-quality glass face offering ease of use and visibility



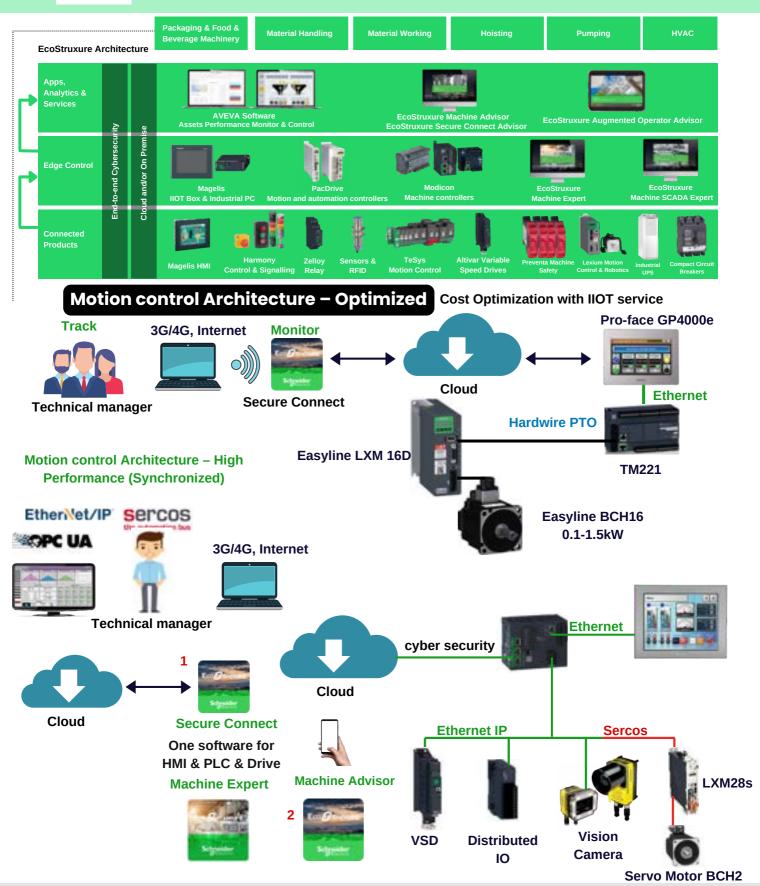
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WEBSITE scigate.com.my



Schneider Electric

SCHNEIDER ELECTRIC FACTORY AUTOMATION SOLUTION



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WEBSITE scigate.com.my



Schneider

SCHNEIDER ELECTRIC FACTORY AUTOMATION SOLUTION

Smart services

EcoStruxure Machine Advisor

- EcoStruxure Machine Advisor is the new digital cloud-based services
- It enables machine builders to provide new services to machine operators for each installed machine in any production site worldwide.

Machine Data EcoStruxure



Machine Advisor

Machines worldwide

EcoStruxure Machine Advisor – Overview



Track is a repository service to get access to the machine's documentation and history: e.g. bill of materials, manuals, maintenance log, and task management



Monitor is a cloud-based service to get access to machine data e.g. OEE, performance, availability, and quality dashboards



Use EcoStruxure Software in the cloud to fix machine issues

Controllers for Industrial Machines



Modicon M221 For hardwired architectures The best performance for its



Modicon M241/M251 For simple motion control and distributed machines Achieve benchmark performance



Modicon M262 IIoT ready controller for Logic & Motion machines High performance & flexibility!

Servo Drives & Motors



Lexium 16

Servo drives and servo motors up to 1.5 kW Flexible for a variety of applications

- **Entry level Motion Control**
- Features 6 references for servo drives for the right choice of product application
- With 16 references of servo motors to tailor for your specific needs



Lexium 26

Servo drives and servo motors up to 7.5 kW **Optimized for simple motion control applications**

- Ideal use in limited space
- Essential functions with no compromise on quality
- Anti-vibration function for suppression of resonance frequencies



Lexium 28

Servo drives with embedded safety and motor servo up

Optimized for compact machines

Altivar Variable Speed Drives



Lexium 32

Servo drives and servo motors up to 11 kW Flexible with embedded safety for a variety of

applications

- Independent to synchronized motion solution
- Powerful control loop



Simple Machines Easy Altivar 310 Compact Format 0.37...11kW 400V





HVAC ATV 212 Compact Format 0....75kW 200...400V





General Purpose Easy Altivar 610 0.75...160kW 400V

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INSTALLMENT



HMI FEATURES

DEVICE MANAGEMENT



HMI RECIPE



ALARM NOTIFICATION



USER PERMISSION MANAGEMENT



REMOTE MONITORING



MULTI-LANGUAGE DISPLAY



SYSTEM INTEGRATION







FEATURES

Main Features:

- CPU A35 1.2GHz, 4G Flash, 512MB DDRAM.
- Display:15 inches; Resolution: 1920*1080; Display color: 260k colors.
- Interface: a physical serial port. COM1: RS232, RS422 or RS485(choose one of two), RS485.
- USB interfaces: USB Host/USB Client.
- · remote monitoring and serial port download supported.
- 8150ig-C supports related functions of V+NET, Ethernetpass-through download and sync data to cloud.

BIG SCREEN





FAST



ALLUMINIUM ALLOY PANEL



UNIQUE



4-CORE CPU



NUMEROUS



COMPLETE IOT FUNCTION



RELIABLE





SMART HOME



SMART BREADING







SECURITY



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MELLIN

PI3070ig HMI



Main Features:

- CPU A35 1.2GHz, 128M Flash, 128M DDRAM
- Display:7 inches; Resolution: 800*480; Display color: 16,000k colors
- Interfaces: a serial port. COM1: RS232, RS422 or RS485(choose one of two), RS485.
- USB interfaces: USB Host/USB Client
- Remote monitoring and WVPN pass-through download.
- 3070ig-C supports related functions of V-NET, Ethernet pass-through download and sync data to cloud.

Model	COM	Ethernet	Monitoring	Alarm	Data Record	Validity	WIFI/	Pass- through	Script
P13070ig	1e1	1/3	NA.	NA	NA .	NA	NA .	□ WVPN	YES
Pl3070ig (4G)	281	1	NA.	NA	NA.	NA	49	WPN	yes
PI3070ig (WIFI)	3 in 1	1	NA	NX	NA	NA	W(F)	WPN	YES
PI3070ig-C	2 in 1	£1.	100	20	50	60 days / 1 initions	NA	WPN	700
Pf3070ig- C(4G)	Sint	10	100	20	50	60 days / t millions	40	WYPN	yes
Pl3070ig- C(WIFI)	3at	fil.	100	20	50	60 days / 1 millions	WIFI	WARN	YES

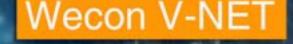
PI3102ig HMI



Main Features:

- CPU A35 1.2GHz, 128M Flash, 128M DDRAM
- Display:10.2 inches; Resolution: 1024*600; Display color: 16,000k colors
- Interface: a physical serial port. COM1: RS232, RS422 or RS485(choose one of two), RS485.
- USB interfaces: USB Host/USB Client
- remote monitoring and serial port download supported
- 3102ig-C supports related functions of V+NET, Ethernet pass-through download and sync data to cloud

Model	COM	Ethernet	Monitoring	Alarm	Data Record	Validity	WIFI/ 4G	Pass- through	Script
P13102ig	3a1	1	NA.	NA	NA:	NA	NA :	WPN	YES
Pl3102ig (4G)	361	177	NA.	NA	NA	NA	49	WYPN	YES
Pi3102ig (WIF i)	3 in 1	+-	NA	NA	N/A	NA	WIFI	WPN	YES
Pl3102ig-C	3Ht	1.	100	20	50	60 days / 1 millions	NA.	WPN	YES
Pi3102ig-C(4 G)	3et	1	100	20	50	60 days / 1 millions	40	WPN	YES
Pl3102ig-C(WI FI)	2 is 1	€E	100	20	50	60 days / 1 millions	WFI	WAN	YES



the general&Light HoT Platform--remote servers





Remote Operation--All Under Control

WECON V-BOX and PI3000ig series IoT HMI transmit the data obtained from mechanical equipment to WECON V-NET. No matter how many devices there are, you can bring them all in one platform. By using the V-NET APP, you can easily get Unattended Operation, Device Management, Remote Commissioning and Data Connectivity.

Device Management



Data Connectivity



Unattended Duty

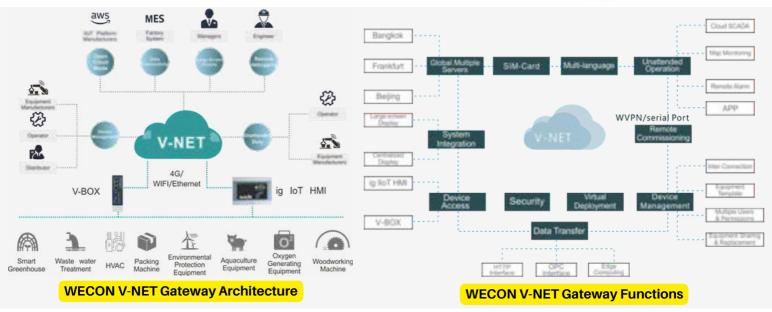


Remote Commissioning



System Integration: Large Screen Display, Interconnection Between Devices









V-BOX H SERIES

Main Features:



V-BOX is a device for use in remote debugging, web scada, API interface, app monitoring.

- Get data via RS-232 / RS-485 / Ethernet communication, offer Modbus RTU / Modbus TCP communication.
- Supports communication protocols of the main brands of PLC, frequency inverters, network analyzers, among others.
- · Connects to the cloud platform through Ethernet, Wifi, 4G connectivity.
- Remote monitoring with upload and download option of PLC programming (Wecon).
- Offers WVPN for remote connection to different PLC brands.
- · OPC access.
- Development of Scada in the cloud.
- Datalogger and download of data, alarms and history directly to Excel.
- Access available from mobile devices through the V-Box app (Android / IOS)

Model	000	Stend	Monitoring	Aam	Data Record	Saley	MEN SE	Pase-through	Script
NIOTHE:	4 in 3	3.	300	200	30	90 days / f millions	Na	perial reves	Yes
vaca Hsu	4 in 3	3	500	300	10	180 days / 1 millions	.40	senal over	Yes
V-BOX H-	4 in 3	1	+00	100	te	180 days / 1 millions	40	secial room	Yes
AG (global)	107		100	1000	100	107 00501 1 000000		100.00 11111	124
V-BOX H-WF	4 in 3	3	100	200	Se	90 days / 1 millions	WIFI	serial rivino	Yes

V-BOX E SERIES

Main Features:



V-BOX is a device for use in remote debugging, web scada, API interface, app monitoring.

- Get data via RS-232 / RS-485 / Ethernet communication, offer Modbus RTU / Modbus TCP communication.
- Supports communication protocols of the main brands of PLC, frequency inverters, network analyzers, among others.
- · Connects to the cloud platform through Ethernet, 4G connectivity.
- Remote monitoring with upload and download option of PLC programming (Wecon).
- · Offers WVPN for remote connection to different PLC brands.
- OPC access.
- Development of Scada in the cloud.
- · Datalogger and download of data, alarms and history directly to Excel.
- Access available from mobile devices through the V-Box app (Android / IOS)

Model	сом	Ethernet	Monitoring	Alam	Data Record	Yeldy	WITE)	Pass- through	Script
V-BOX E-00	2 in 1	- 1	200	50	20	so days not millions	Na	Serial	Na
V-BOX E-4G	2 in 1	1	250	100	50	so days no millions	40	Serial	Yes



MELLIN

PLC series



LX3V



LX5V Ethernet Series



- High speed pulse input and output
- Support encoder (AB phase)
- Up to 200K pulse signal
- Power-down save
- Program encryption protection
- 8-axis high speed pulse input and output
- The basic execution speed is 0.01us ~0.03us
- 8 external X interrupst supported (both rising and falling)
- (High baud rate)921600bps
- 100us high-speed timing interrupt
- Maximum 100 high-speed counting interrupts



LX6V 0808MT

- Supports EtherCAT and USB TYPE-C
- Support IEC61131-3 LD programming mode, free-tag protocol, faster and more efficient communication
- 5MB large program capacity
- 512KB latched capacity
- 100KB register capacity
- 5MB free tag capacity

Servo Series



VD3E Series



VD2 Series



VD2F Series



Servo Motor

- Cooling ensured Integrated body design, better cooling system, better protection.
- Small size The split encoder is adopted to significantly reduce the size of the motor.
- High working temperature N38SH grade magnetic steel can work as 150 C Degree. H grade enamel insulated wire is used and the insulation temperature is up to 180 C degree.
- Good components Raw materials of international brand is used and high quality, certificated trade companies are supplied to ensure the quality and stability of products.



RONDS

ONLINE CONDITION MONITORING SYSTEMS



Data Collector RH 560



Wireless vibration and temperature RH505



Wireless tri-axial vibration and temperature sensor RH605

WIRED CONDITION MONITORING SYSTEMS



Data Collector RH 1000



RH113 Accelerometer



RH103 Accelerometer

MOS3000 SOFTWARE



- Webpage, can view machine condition anytime, anywhere. Tree structure, Easy to check by administrators
- SMS/Email A, learn condition anywhere
- Intelligent Machinery Condition Monitoring Solution.
 Intelligent alarm and response system.

APPLICATION









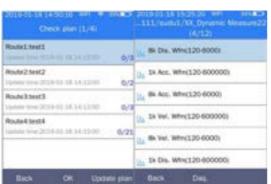


PORTABLE VIBRATION ANALYSER



FEATURES

- Touch Screen
- Route measurements downloaded from PC software
- Waveform/spectrum analysis and alarm remind
- Manual input function
- Infrared temperature measurement
- Set equipment status
- Multi-communication method with server: Wi-Fi or USB
- Camera function
- Professional PC analysis software
- Explosion proof version is available and optional
- CE marking available





Route measurements downloaded from PC software

Waveform/spectrum analysis and alarm remind

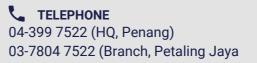




Infrared temperature measurement

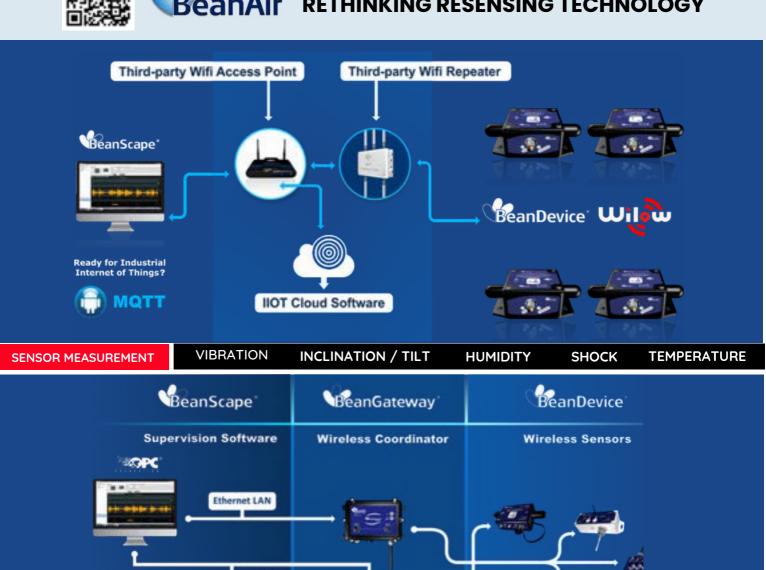
Professional PC analysis software

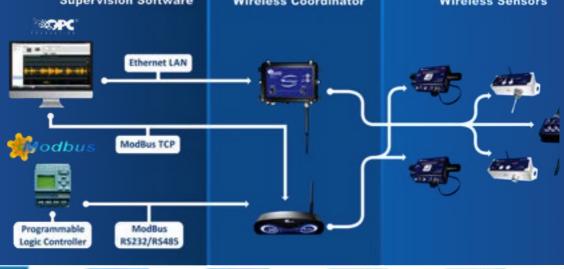






BeanAir RETHINKING RESENSING TECHNOLOGY







Land Surveying



Structural Health
Monitoring



Test and Measurement



Ground Vibration

Monitoring



Environmental Monitoring



Condition Monitoring

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ZIGBEE WIRELESS TELEMETRY SYSTEM 2.4GHZ

Telemetry and Connectivity



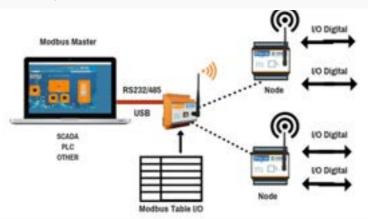


GRD-3G Family

Telemetry Device with 3G+2G Cellular / Satellite communication and Programmable Logic

- Using the GRD-3G allows for remote monitoring and control of sensors, transducers, and intelligent devices from your own control system or through our Web Server for Telemetry applications.
- Remote Serial Port (Modbus or wireless)
- Modbus Master protocol in port RS232/485 for I/O expansion

- Modbus Slave protocol for local access to I/O
- Logic programming with Scripts
- Alarms and capability to control by SMS text messages
- · Record Logs Automatic reconnection by shear link
- Display of data through:
 - 1. SCADA Software
 - 2. Your own software
 - 3. Exemys provided web page





Wireless Inputs/Outputs using MODBUS protocol

This solution allows us to connect Modbus devices to the remote nodes with the RS232 or RS485 ports and access them through the concentrator.

Specification:

RF Wireless Protocol: IEEE 802.15.4 Frecuency: 2.4000 to 2.4835 Ghz

Free Band Channels: 16

Separation between channels: 5 MHz

Wireless access to MODBUS slave

This solution allows us to monitor the physical inputs/outputs of the nodes, by reading the internal Modbus slave on the concentrator

Specification:

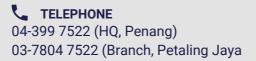
Antenna: 2dBi Connector RP-SMA

Scope: 2Km between nodes, with antenna of 2dBi and line of

sight

Mesh Network – Amount of Nodes: Up to 50 max. Mesh Network – Repetition between nodes: Up to 4



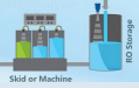
















LIQUID & SOLIDS LEVEL TRANSMITTERS/SWITCHES

Reflective Ultrasonic Sensors





General purpose Intrinsically safe

Application

Day tank, skid or machine, cooling tower, IBC or drum, process tank, small waste sump Bulk storage, neutralization tank, clarifier, large waste sump

Range

9.8' (3m)

39.3' (12m)

Ultrasonic Sensors





General purpose

General purpose

Application

Chemical feed, skid or machine, IBC or drum

Bulk storage, day tank, waste sump

Range

49.2" (1.25m)

32.8' (10m)

Pulse Radar Sensors







General purpose

Intrinsically safe

Application

Dry Bulk Solids

	Crusher, transfer
Droope	station, stockpile,

Process Process

silo, bin

Range

114.8' (35m)

229.7' (70m)

Guided Wave Sensors

114.8' (35m)







General purpose

General purpose

General purpose

Day tank, skid or
machine, IBC or
drum, process
tank, waste sump

Application Day tank, skid or machine, IBC or drum, process tank, waste sump

Bulk storage

Range

9.8' (3m)

9.8' (3m)

18' (5.5m)











LIQUID & SOLIDS LEVEL TRANSMITTERS/SWITCHES

Level Switches



KF-805NMulti-point **Ball Type Float Switch** Suitable to control the supply and drainage pump, the motor and the

solenoid valve

KF-207Standard Flange Type

Various flange regulations are available

KF-32 Smallcaliber Type

Suitable for liquid level measurement KF-500 Flange Type • **Detection Pipe Type**

Applicable to high viscous liquid

KF-650 Remote construction

Suitable for liquid level measurement

Level Transmitters for liquid and powder



Basic model of rotary paddle level switch.

NL-8B Standard

Flange Type

NL-15B Withstand **Load Type**

Suitable for low level detection inside the big tank

LS Standard Type

Basic model of small rotary paddle level switch

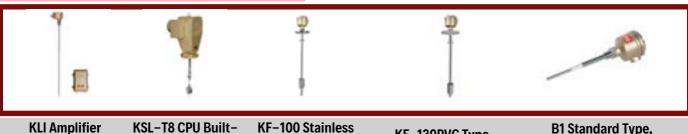
SWM-8B Standard Flange Type

> Standard model of swing level switch

SWM-8BA Adjustable **Shaft Type**

Suitable for the application length adjustment

Level / Flow Switch for Powder/Granules



Remote Type Stable measurement even while charging

KSL-T8 CPU Builtin Model

Measuring tape material is stainless steel.

KF-100 Stainless Type

Applicable to water, oil, general liquid etc

KF-130PVC Type

Suitable for corrosive liquid measurement

B1 Standard Type, Straight Electrode

It measures the capacitance variations between the main electrode and the tank wall

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SOLUTION IN LOAD CELL AND WEIGHING TECHNOLOGY



Compression Load Cells



Beam Load Cells



Wireless Load Cells



Load Shackles



Tension & Compression Load Cells



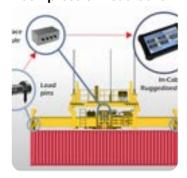
Tension Load Cells



Load Pins



Load links



Container Weighing Systems



ATEX Load Cells



ATEX Load Shackles



ATEX Load links

INSTRUMENTS



Hand Held Indicators



Digital Indicators

APPLICATION

- Crane Overload
- Mooring
- Anchor Winch
- Bridge Structural Monitoring
- Crane Hoist
- Jack Up Vessel Load Monitoring
- Shore Side Crane
- Cable Tension Monitoring



FUTEK ADVANCED SENSOR TECHNOLOGY



Pancake In-line Series



Miniature Load Button



S-Beam Jr



Bending Beam



Through-Hole Donut

Pressure Sensor



Reaction Torque Sensor



Torque Sensors

Rotary Torque Sensor



Miniature Screw Driver



Miniature Pressure Sensor



Pressure Sensor (OEM)

Instruments





Tri-Axial Load Cell



Torque and Thrust



Handheld Display



USB Solutions



Universal Amplifier



Panel Mount

Load Cell Application



Medical Bag Weighing



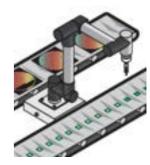
Wire Tension Measurement



Automation filling container



Mass Flow Meter



Fluid-flow rate measurement

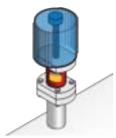
Torque Sensor Application



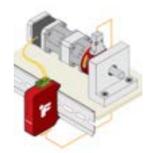
Motor Test Stand



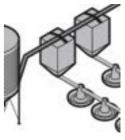
Nut Runner Force Sensor



Valve Torque Testing



Servo Motor Torque Control



Agriculture Poultry Feeder

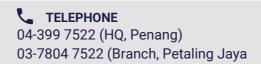






ENSURING THE BEST ACCURACY FOR EVERY MEASUREMENT









ENSURING THE BEST ACCURACY FOR EVERY MEASUREMENT

PAVONE SISTEMI APPLICATION





































OUR PRESSURE SENSORS ARE DESIGNED WITH CUSTOMIZATION IN MIND

Our pressure sensors are designed with customization in mind and they are flexibly configured to fix the needs of every application.



Piezoresistive OEM Measuring Cell



Pressure Transmitter



Temperature Transmitter



Pressure & Temperature Transmitter



Pressure Switch



Transmitter





Level & Temperature Transmitter







PROFILOMETERS FOR THE ANALYSIS OF SURFACE TEXTURES AND FORMS

Surtronic S-100



- Advanced parameter options to suit your application
- USB Connectivity for charging, USB stick storage or printing
- Measure any surface, any height with the included stylus lift
- Anti-slip V-feet mean the system can be used on flat or curved surfaces
- Built to last, by design Impact resistant rubberised mouldings
- 2000 measurements from a single charge.

Surtronic Duo Surface



- Bluetooth technology Quick, reliable communication between traverse and display/ control unit.
- Profile graph Clear detailed graph showing measurement area - excellent for visually identifying defects.
- Separates The Duo splits into a display/control unit and traverse unit via a slide and lock mechanism.







HIGH PRECISION SENSORS, MEASUREMENT DEVICES AND SYSTEMS

















Distance

Filling level

Gap, Roller

Lifting height, lifting

Color recognition

Deflection

Diameter

Dimensions













Positioning

Profile, Contour, Surface

Revolutions

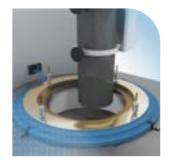
Temperature measurement

perature Thickness

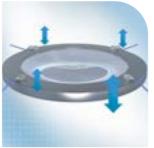
ness Width

Measurement area for various surfaces

Surface. Material.Transparent. Metal. Glowing.Shiny. Translucent. Multi Colour. We Do have The Right Technology For you



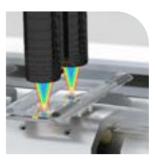
Eddy Current Sensor



Capacity Sensor



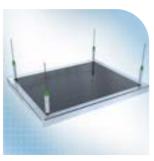
Laser Displacement Sensor



Confocal Sensor



Draw Wire Sensor



Interferometer Sensor



IR Temp Sensor



Fiber Colour Sensor



Laser Projector Sensor



Thermal Imager



Thickness Sensor



Coating Thickness Sensor



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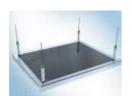
HIGH PRECISION SENSORS, **MEASUREMENT DEVICES AND SYSTEMS**

Advance and New Technology



Capacity Sensor

- Nano meter resolution
- Multi-channel measurement
- Thickness, distance, flatness, gap



Interferon Meter Sensor

- Nano meter resolution
- Transparent, translucent, metal,
- mirror surface
- Thickness, Distance, Flatness



Thermal Imager

- **Precise Temperature Capture**
- High resolution FOV for temperature
- **Customize monitoring location**













- Fast 3D capturing
- Height resolution for x,y,z axis
- 3D data directfrom sensor

Micro-Epsilon Application



Colour Homogenous for Car Headlight



Gap Measurement for mechanical assembly



Height/Quality/ Area/width check for dispensing beam



Inline thickness/quoting thickness



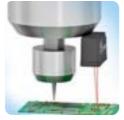
Solder Height, process positioning control



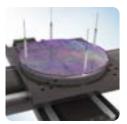
Glass manufacturing temperature monitoring



Contact lens diameter check



Dispensing height monitoring



Wafer: thickness, flatness, saw mark, bow and warp



Why Choose Micro-Epsilon?



Non -Contact



Traceability



Reduce Reject Rate



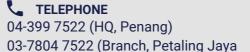
Documentation





Quality Product Accurate











WORLD LEADER IN THE INNOVATION AND MANUFACTURE

Displacement Measurement Sensor





In the lab, on the shop floor or in the field, Solartron Metrology products provide precise linear measurements for quality control, test and measurement and machine control.

LVDT or Inductive Gauging Probe

Digital Probe and Orbit Technology

Digital Probe - Orbit



Orbit® ACS



Orbit® Gateway



Orbit® PC Solutions



Orbit® Digital Display



Gauging Probe



Probe Tips and Accessories



Wigauge



LVDT Displacement Sensor

Analog Probe



Gauging Probe



Analog Amplifier



Display Unit



Probe Tips and Accessories





WORLD LEADER IN THE INNOVATION AND MANUFACTURE

Orbit Modules and Gateways

- Flexible and easy to use
- Interface up to 150 Orbit® Digital Probes.
- Mathematical Formulae, both fixed and user programmable
- Log Data to MicrosoftExcel ® formatted files for furtherprocessing
- Upgrade options for Complex Formulas, Mastering and Statistical Process Control (SPC)

Orbit® 3 Network

- Calibrated DigitalSensors
- Network up to 150 sensors
- Output via USB, RS232, Ethernet, Ethernet/IP®, Profinet®, EtherCAT®, Modbus, Bluetooth, and others

Orbit® Air Gauge Interface Module (AGM)

- Calibrated DigitalSensors
- Network up to 150 sensors
- Output via USB, RS232, Ethernet, Ethernet/IP®, Profinet®, EtherCAT®, Modbus, Bluetooth, and others
- AGM works with PC / PLC interface module of Solartron Metrology

Bowers Digital Smartplug

- Custom-made size
- High Precision Digital Bore Gauge 2-points
- Can be integrated with Solartron Digital Transducer

SOFTWARE





Watch Video

APPLICATION



Flatness Check Station

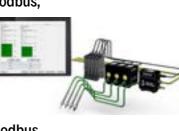


ID Check of Con-Rod



Curvature and Thickness of Glass



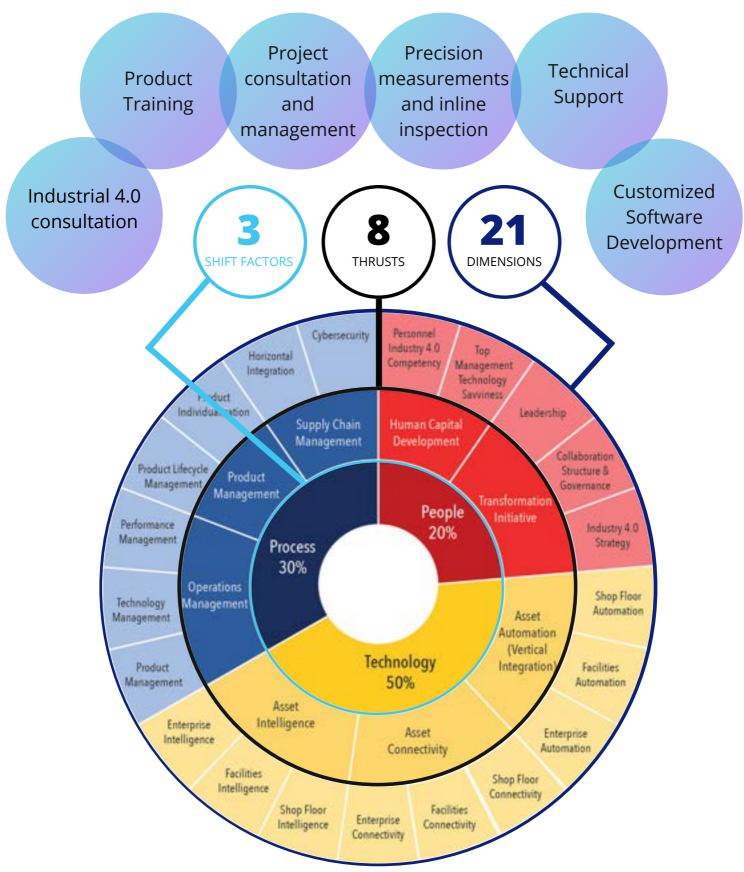






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