

# Product Guide VIII



control



Meeting Customer Satisfaction As a Total Solution Supplier



# OUR CUSTOMER OUR MISSION

Endless Automation Systems, Wide Range Solutions, Advance Technology, Au. Building Rutomation Cost effective, Free Application Consultation, Well-trained and delicate engineers, Satisfaction Guaranteed, Free Demonstration. Industry Semiconductor SeaPort Marine Robotic Aerospace Water **Automotive** Industrial Weighing R&D Treatment R&D Pharmaceutical HDD Food Precision 8 Beverages Engineering

\*For more information, please log on to http://www.scigate.com.sg

# HMI & SCADA

**Graphic Touch Panel Graphic Logic Controller Industrial Computer & Flat Panel Data Logger SCADA Solution** Energy, Facility & OEE Solution **Industrial Computer & Flat Panel Marine Computer Graphic Touch Panel (CE)** Graphic Logic Controller (CE) **Programmable Logic Controller** 



# **IoT**

Wireless Sensor **Wireless Telemetry** 

# **DRIVE & CONTROL**

AC Drive / DC Drive Soft Starter AC Servo Drive / Motor Wide Spectrum Passive Harmonic Filter

15-20

04-09

10-11

12-14

**SENSORS** 

Force Sensor / Weighing Solutions Force / **Displacement Measurement Solutions Torque Sensor In-line Concentration / Density Monitor** Level Transmitter **Pressure Transmitter Pressure Switch** Level Float Switch **Flow Sensor Digital Panel Meter METROLOGY Contact Displacement Probes** 

**Analogue & Digital Probe Non-Contact Measurement System** Laser Scan Micrometer IR Thermo-sensor / Thermo Imager **Color Sensor** High precision roundness, roughness and contour measurement

21-26

# The GP4000 Series





## Touchscreen HMI with extensive simultaneous multi-control connectivity

**SP5000** 

# The New Pro-Face Standard Bring your factory closer to your office

By segmenting the network, Smart Portal makes it possible to connect factories and offices while ensuring the highest security.







#### Direct connection via our products to various devices enabled with our all-in-one software



Available a wide variety of high-quality sample screens of connecting devices for reduction of editing time.

Camera

Sensor

Servo moto

Barcode Reade

# **PS4000** Series (Rugged, High Performance IPC)





Expandable Rear mounting available • OS Long-Term Supply 0 0 **Reuse HMI resources Replaceable HDD** 0 Safety Standard **Replaceable Fan** Industrial Monitor  $\cap$ Sliding expansion Slot (Slide-in Slot) HDD/SSD Slot (Slide-in Disk) **UPS** Available Large Heatsink + Smart fan control Easily Replaceable HDD Drive FP5000 Series (Flat Panel Monitors) Flat Panel Monitor FP5000 SERIES Available in 12.1" ~ 15"

- Analog Resistive Touch Panel
- DVI-D
- IP67F
- Front USB2.0 port
- Flexibility in connection to CPUs

# FP5000 SERIES

Industrial grade TFT display supporting gesture operation



Supporting latest gesture operations is key to more intuitive user guidance and also promotes less unintended operations. Applying proven resistive touch technology, compromises like choice of gloves or installation environment have not to be made



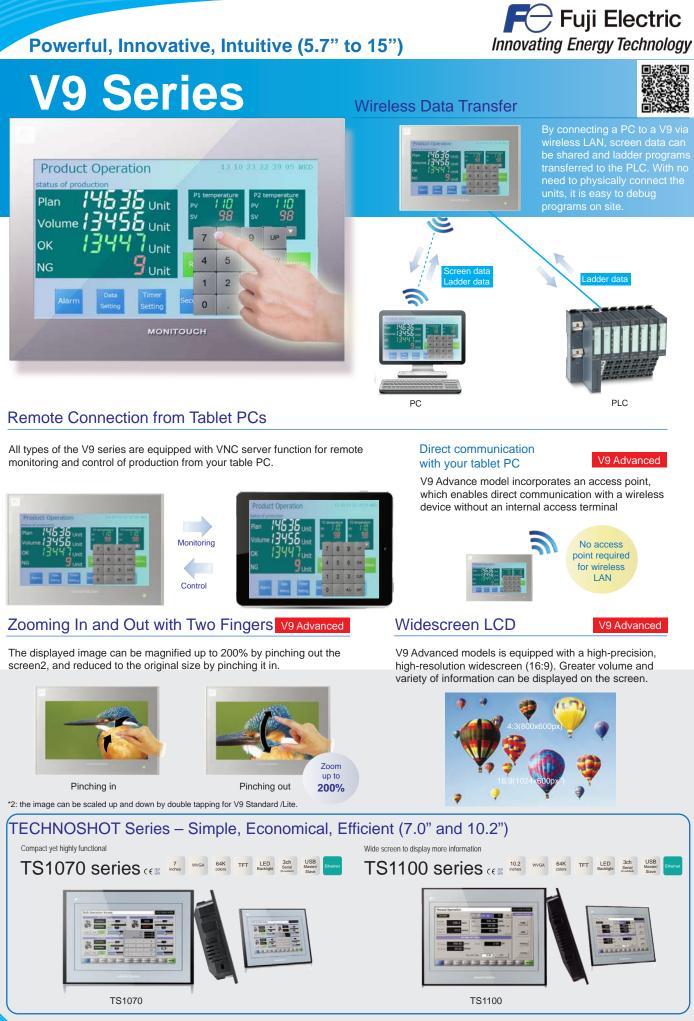
Two-point touch

Pinch

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# Specification:

Serial COM x 06
Ethernet × 03
USB x 05
8 Points (Selectable I/O)
Connect to multiple devices at the same time.







# Delphin with intelligent, universal data acquisition hardware and intuitive measurement software



Overview of software modules: **ProfiSignalGo:** 

#### ProfiSignal Go is a runtime system enabling measurement data to be displayed and analyzed in just three steps.

- Data acquisition and recording
- Data analysis and calculations
- Online and offline trending
- Data export

#### **ProfiSignal Basic :**

ProfiSignal Basic is a developmental system for generating custom systems with visualization and trend functions.

- Operation and observation
- Process visualization
- Report generation

#### **ProfiSignal Klicks :**

ProfiSignal Klicks is software for test automation and the programming of control systems.

- Automating test stands and process control system
- Automating evaluation and analysis functions
- Generating parameter graphs
- Selective frequency band evaluation

**Delphin Trend-App** 



for the remote monitoring systems, experiments, trial and testing.

Vibration measurement



The universal measurement case is make of an extremely robust synthetic material and can cope with any bumps or knocks during transport or operation.

**Mobile Case** 



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Data Aquisition & data logger



Test, trial & automation

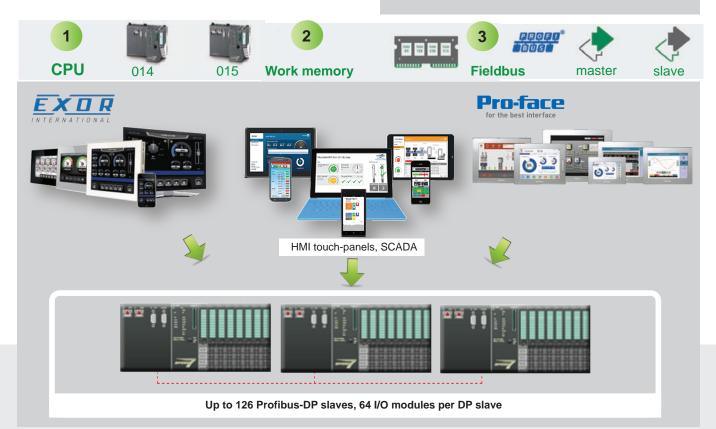


SLIO The smart control and I/O system

- 1. Programmable with Speed7 Studio or Simatic Manager (Step7) and TIA Portal.
- Ethernet interface for easy programming and communicating with touch panels and SCADA system.
- 3. Expandable work memory
- 4. Program and data storage using SD card
- 5. Configurable serial interface are Modbus RTU master / slave, MPI, ASCII etc.



- 2 types of CPU (014 and 015).
- Use the same set of I/O modules. Interchangeable with VIPA SLIO CPU or VIPA SLIO remote coupler.



**S5 Conversion - Upgrade existing Simatic S5 to SPEED7 solution** 'Greatly reduced system shut down time for conversion!'



- From continuous 2 months period of shut down to several shut down, with each period of only 1~3 days.
- Successive conversion at minimum downtime.
- System roll-back is possible.
- 1. Use VIPA IM 306 DP slave for integrating S5 racks into S7 environment via Profibus-DP.
- 2. Compatible for 115U, 135U and 155U series.
- 3. Power supply replacement for 115U



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# **Rethinking Sensing Technology**



# 🔁 exemys Industrial Internet of Things (IIoT) & Wireless Solution ETHERNET TELEMETRY CELLULAR SYSTEMS Sexemv ZIGBEE SATELLITE Miniature 3G PLC with Integrated I/O and Modbus (GRD-3G) **Exemys Webpages** GRD-3G Middleware and Database Internet **GSM / Internet** SCADA and other software 3G cellular communication sms Analog and digital I/O, pulse input Modbus RTU Logic programming Wireless Remote Monitoring (wRemote) Node ► Multiple(50) remote nodes Concentrator 1 Km Automatically relay data when signal strength is low Connect to sensors directly SCADA and other software **HMI** Touchscreen

# Protocol Converters

Analog & Digital Acquisition



Fiber Media Converters

#### IoT Web Server





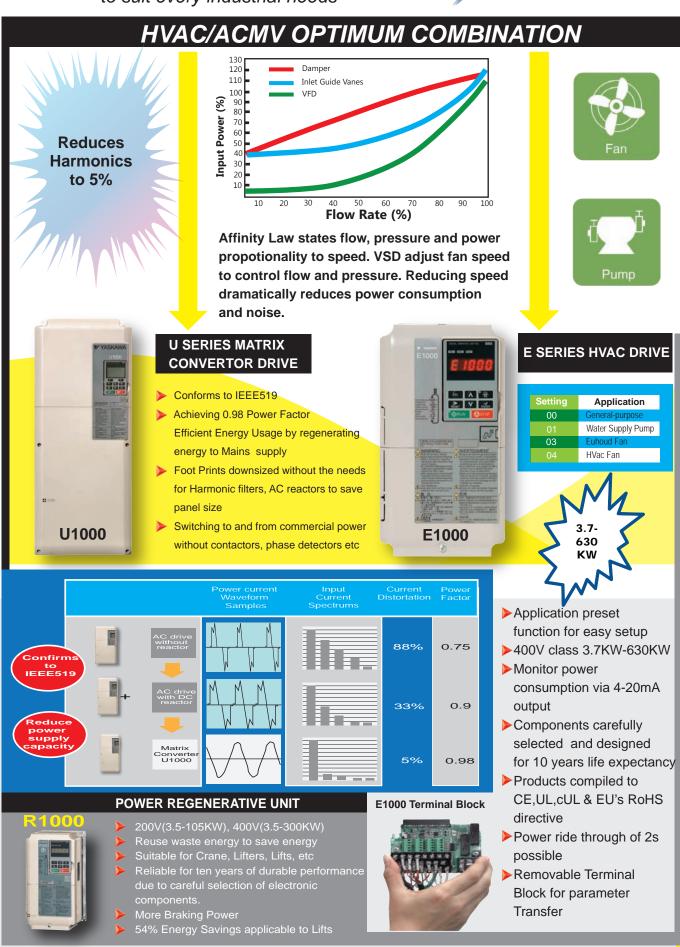


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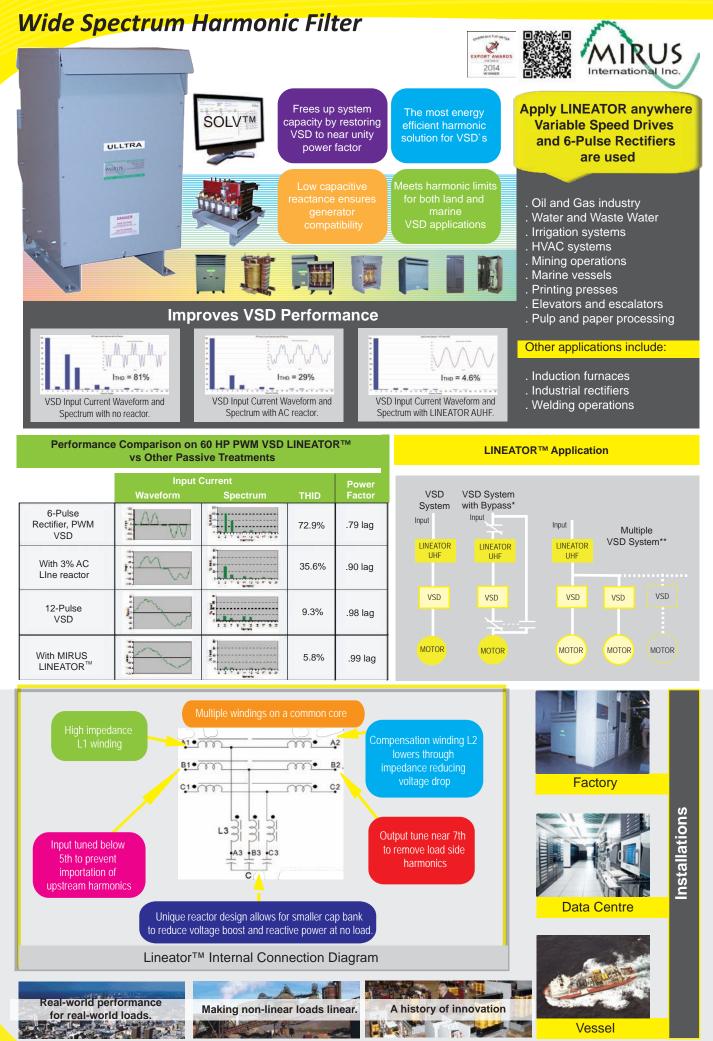
# AC drives







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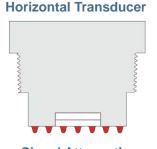
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Wire Tension Measurement

# We Do Your Level Best Measurement, Automation & Safety



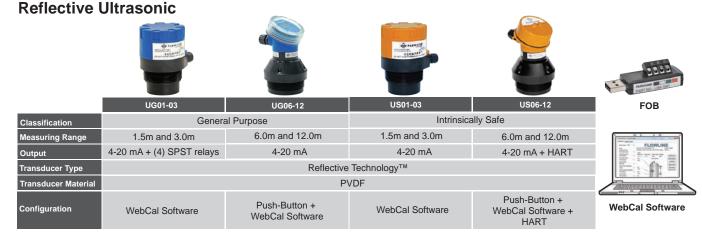
Condensation is the most common variable in liquid level applications. Condensation attenuates the acoustic signal of ultrasonic sensors with horizontal transducers, weakening their signal strength and signal to noise ratio by up to 50% and substantially reducing their measurement reliability. At the core of Reflective Technology<sup>™</sup> is a simple fact.Unlike flat horizontal surfaces, significant water droplets cannot adhere to smooth vertical surfaces. By orienting the transducer vertically, condensation runs off the transducer and does not affect sensor performance.The unimpeded transmit and receive signals are redirected to and from the liquid off a 45° reflector, delivering reliable level measurement.



# Reflective Transducer

**Signal Attenuation** 





# Pulse Radar







Classification	General Purpose				
Measuring Range	10m	30m	20m	35m	30m
Output	4-20 mA				
Antenna Material	PTFE	316L	316L & PTFE		Nylon
Configuration	Push-Button				

# Intrinsically Safe Version



# Guided Wave Radar







Automation

Crane

Oil & Gas

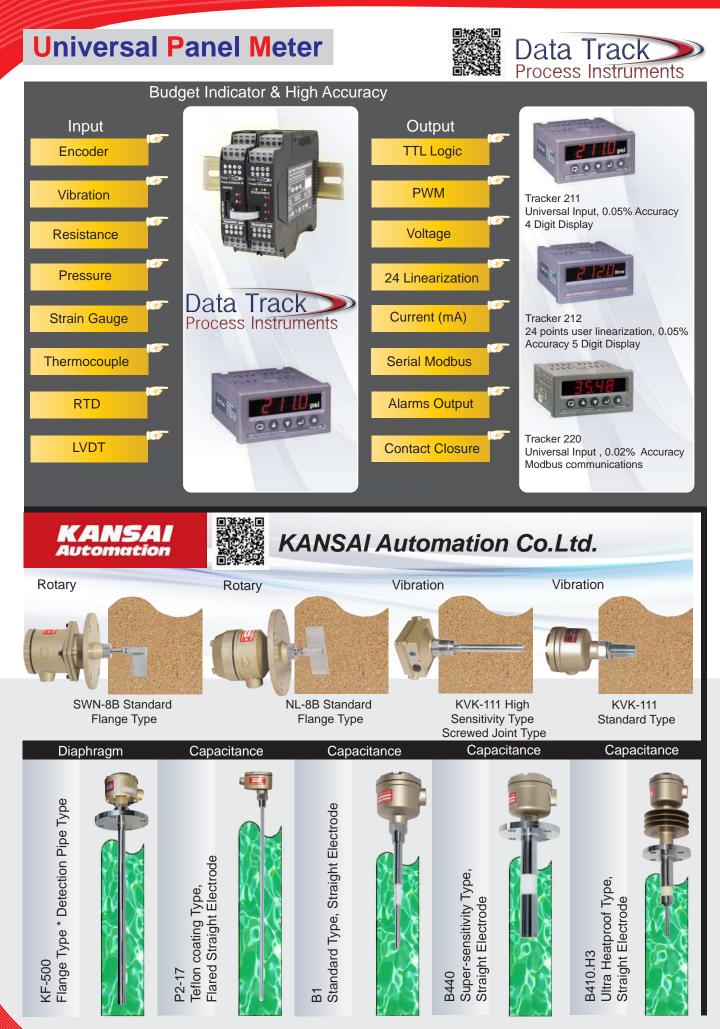
Civil

Aviation



Process Yachting Automobile \*For more information, please log on to http://www.scigate.com.sg







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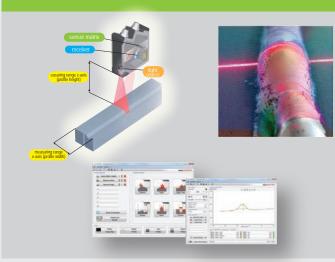


## **Capacitive Sensor**

- Single or multiple channel models available
- ▶ Up to +-0.05% Linearity, 0.000075% resolution
- Operation temperature up to +200 °C
- Suitable for both laboratory and factory operation

Eddy Current Sensor

- ▶ Up to 400 sensors for selection
- Immunity to oil and dirt, moisture etc
- Excellent temperature range and stability
- Suitable for industrial applications



# 2D/3D Profile Laser Scanner

- High accuracy and profile frequency
- High performance signal processor
- Different types of output for integration
- Suitable for gap, step height profile measurement



#### **Optical Micrometers**

- Models with Laser or LED light source
- High speed model available
- Suitable for gap, diameter, edge and presence



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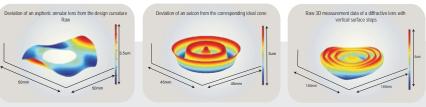
Scan

- Very fast 3D measurement
- Ultra high, reproducible accuracy, +-50nm
- Works for almost every material
- Measure up to 90° slope

Cone angle and

Measure up 120mm, 160mm or 240mm





# **Alignments and Autocollimators**



# Surtronic product range



DUO/Mono

**INTRA Touch** 





# Portable Roughness Tester

- 5 or 9 roughness parameters to choose from
- Diamond stylus and piezoelectric pick up
- Repeatability of 2%, Accuracy of 5% + noise
- Easy to use



- Evaluation length up to 25mm
- Up to 360um gauge range
- Heavy-duty Li-poly battery up to 2000 measurements
- ▶ Able to measure at right angle





# Surface finish and contour

- 50mm traverse length with 0.5um data spacing
- 6nm gauge resolution at 1mm full range, 3nm at 0.2mm
- Straightness error of 0.4um over 50mm
- Patented Ball calibration to ensure integrity of data

S100 series

# Roundness

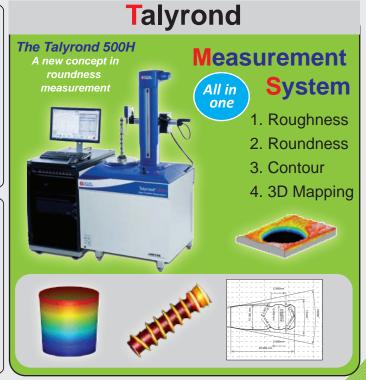
- Robust, fast & easy-to-use
- Max Diameter 300mm, Max weight 20kg
- 2mm Gauge range
- Up to 6nm resolution





# Form Talysurf PGI

 Ultra precision surface form and finish system
 Varies model customized for different industries
 Selectable resolution based on requirement











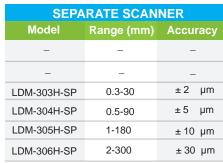
±1 μm

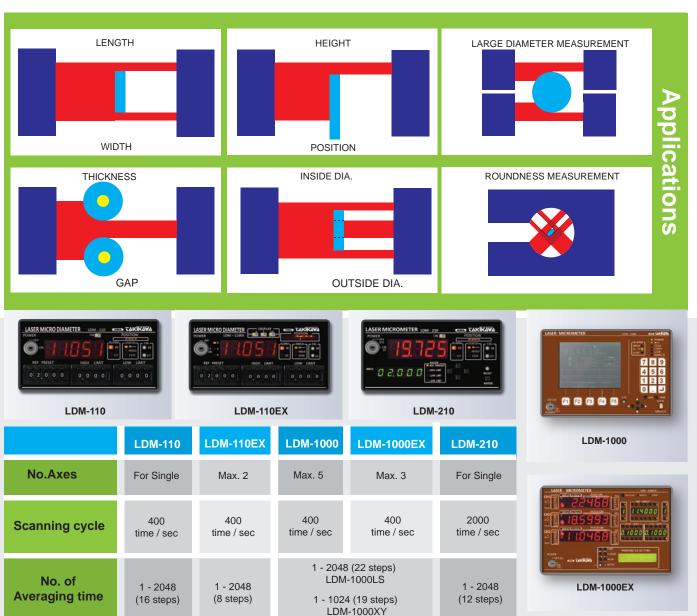
±2 μm

±5 μm

 $\pm$  10  $\mu m$ 

± 30 µm





Model

LDM-302H-XY

LDM-303H-XY

LDM-304H-XY

LDM-305H-XY

LDM-306H-XY

**DUAL AXIS** 

Range (mm)

0.05-5

0.3-30

0.5-90

1-180

2-300

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SER MICRO DIAMETER

Model

LDM-301H

LDM-302H

LDM-303H

LDM-304H

LDM-305H

LDM-306H

**STANDARD TYPE** 

Range (mm)

0.02-1

0.05-5

0.3-30

0.5-90

1-180

2-300

Accuracy

 $\pm 1 \ \mu m$ 

±1 μm

±2 μm

±5 μm

± 10 µm

± 30 µm





## Singapore Office

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