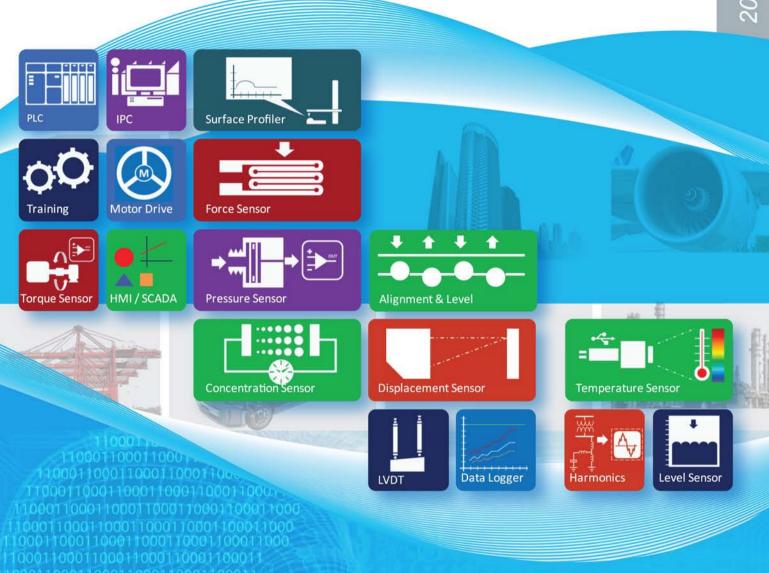


Product Guide VIII



10001100011000110001 we measure

1100011000110001display

control





OUR CUSTOMER OUR MISSION

Endless Automation Systems, Wide Range of Solutions, Advance Technology,

Industry

Cost effective, Free Application Consultation,

Well-trained and dedicated engineers,

Satisfaction Guaranteed, Free Demonstration.



Semiconductor

Marine





SeaPort

Aerospace



Water



Automotive



R&D

R&D



Weighing

HDD



Food & Beverages

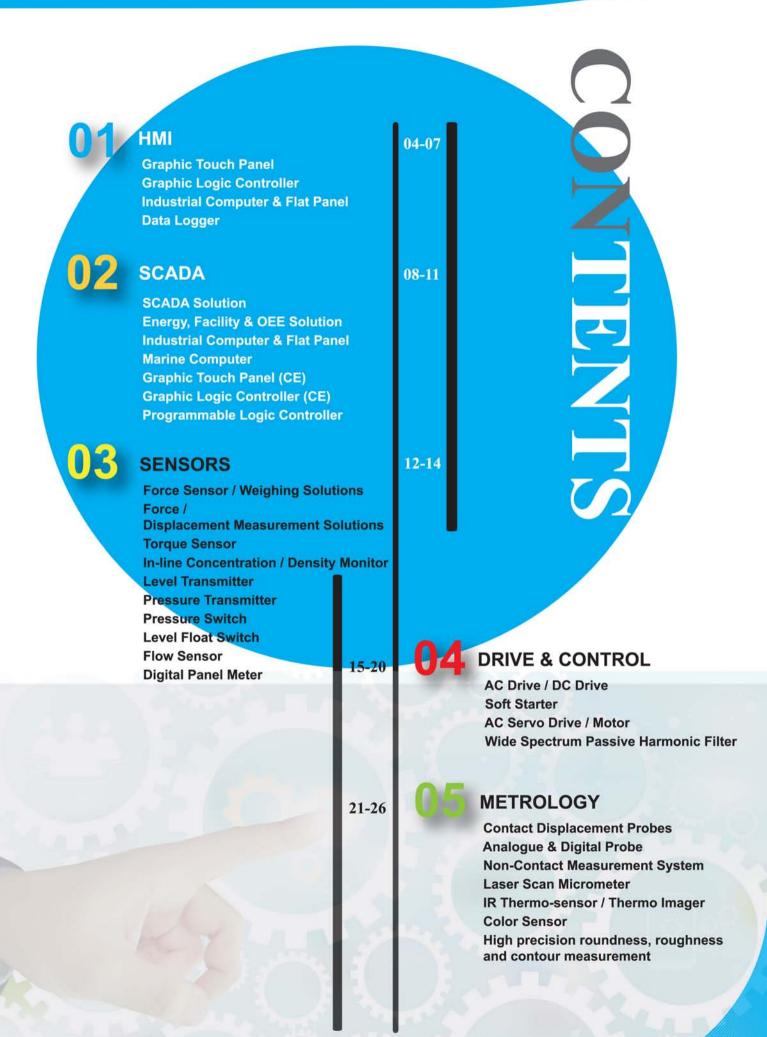


Pharmaceutica



Precision





P5000

The GP4000 Series







Touchscreen HMI with extensive simultaneous multi-control connectivity

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.







HMI screen from a smart phone or tablet.



SLIO – the intelligent, distributed I/O system. Value for money & efficiency are our main considerations in the development process.

FZ SERIES

Flexible and user friendly solution.

- **EZ Tower Light**
- **EZ Illuminated Switch**
- EZ Numpad
- EZ Fingerprint Recognition Unit



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.

PS4000 Series (Rugged, High Performance IPC)







Dependable:

- Longer part life
- UPS Supported
- Corrosion resistant
- HDD mirroring

Maintainable:

- Expandable
- Replaceable HDD
- Replaceable Fan

Compatible:

- Rear mounting available
- Reuse HMI resources
- Industrial Monitor

Reassurance:

- OS Long-Term Supply
- Safety Standard



UPS Available



Large Heatsink + Smart fan control



Sliding expansion Slot (Slide-in Slot)

HDD/SSD Slot (Slide-in Disk)

Easily Replaceable HDD Drive

FP5000 Series (Flat Panel Monitors)

- Available in 12.1" ~ 15"
- Analog Resistive Touch Panel
- DVI-D
- ► IP67F
- Front USB2.0 port
- Flexibility in connection to CPUs



Scroll

Swipe

Pinch

Two-point touch

lat Panel Monitor

FP5000 SERIES

Industrial grade TFT display supporting gesture operation



Benefit from latest multi-touch operation support Hand gestures technology are being used for natural and intuitive human-computer interaction. Applying proven resistive touch technology reduce compromises on the choice of gloves or installation environment.

Series ECONOMIC, EFFICIENT, EMPOWERING

Specification:

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



V9 Series

Product Operation Plan Volume NG MONITOUCH

Wireless Data Transfer





wireless LAN, screen data can be upload / download wirelessly transferred to the PLC without physically connect the units, it is easy to debug programs on site.



Remote Connection from Tablet PCs

All types of the V9 series are equipped with VNC server function for remote monitoring and control of production from your table PC.







Direct communication with your tablet PC

V9 Advanced

V9 Advance model incorporates an access point, which enables direct communication with a wireless device without an internal access terminal



Zooming In and Out with Two Fingers V9 Advanced

The displayed image can be magnified up to 200% by pinching out the screen2, and reduced to the original size by pinching it in.







Pinching out

Widescreen LCD

V9 Advanced

V9 Advanced models is equipped with a high-precision, high-resolution widescreen (16:9). Greater volume and variety of information can be displayed on the screen.



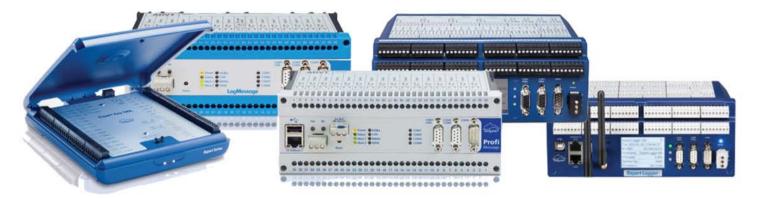
*2: the image can be scaled up and down by double tapping for V9 Standard /Lite.



DELPHIN TECHNOLOGY

WORLD CLASS DATA ACQUISITION AND TESTING TECHNOLOGY





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



A Trend-App is available for the remote monitoring systems, experiments, trial and testing.



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











Microsoft Partner

Gold Application Development









GENESIS64™

Hyper Historian WebHMI

Earth WorX Mobile HMI





Powerful 64 bits solutions

Starting from 75 tags

Count active tags, once only



The Internet of Things: Access information from any device, anytime and anywhere.



Tablet and Smart Phone



Up to 2 TB RAM supported on Windows Servers



Multiple Remote Side Redundancy Collectors



PLC and Controllers



Microsoft SQL Server

GEO SCADA –
'Track dispersed /
moving assets instantly!'

- High end 64-bit computing technology that supports the full capability of a 64-bit Windows OS up to 512 GB RAM
- Universal Connectivity OPC UA server for PLC communication, BACnet (B-AWS), SNMP and databases.
- 3 High speed historian for large capacity data collections.
- Supports IOS, Androids, Internet Explorer, Firefox, Safari and Chrome.











Microsoft Partner
Gold Application Development



Implement Multiple AnalytiX Solutions in One Central System!

- Productivity (OEE), Energy, Facility, Quality
- Servers, System interfaces, web / mobile accesses are shared.





AnalytiX"

Productivity Analytics

- Leverage on Standard OEE Model
- Implement and compare with worldwide assets
- Greatly decrease labors and energy cost
- Use as downtime auditing tools

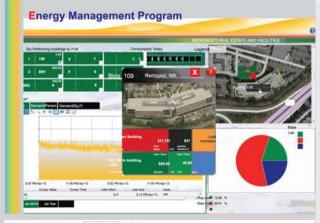


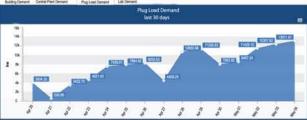
Energy AnalytiX

Never too late to Save More Energy with ICONICS Energy AnalytiX, connect all types of energy meters

- Analyse cost, consumption and carbon footprint.
- Save time on implementation by directly using manufacturer data. Customizing calculations.







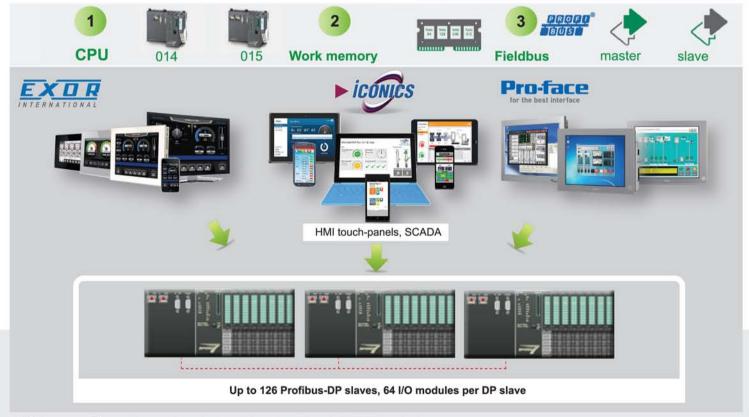




- 1. Programmable with Speed7 Studio or Simatic
- Manager (Step7) and TIA Portal.
- Ethernet interface for easy programming and communicating with touch panels and SCADA system.
- 3. Expandable work memory
- 4. Program and data storage using SD card
- Configurable serial interface are Modbus RTU master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

JMobile Studio

the human machine interface













HMI + PLC Solution for eTOP 500/600 series



Multifunction I/O: 20DI, 10DO, 8AI and 4AO and PT100 Compact I/O: 8DI, 6DO, 1 Relay CODESYS Module for ladder programming

eTOP 515 eTOP 513 eTOP 512 eTOP 510 eTOP 507 eTOP 506

- From 4.3" inch to 15" inch
- 64K LED Color Display
- Ethernet, USB, serial ports and MPI Integrated
- Support SD Card
- PLC (CODEYSY) Optional Integrated
- SD Card Slot
- Protection class IP66 (Front)
 - DNV, Class 1 Div 2

Application in Marine, Oil & Gas and Hazardous Industry











- 7" inch and 15" inch 64K LED Color Display
- True Glass Projected Capacitive
- Protection class IP69K (Front)
- DNV, ATEX, Class 1. Div 2
- Ideal solution for extreme, outdoor, marine
- **UV** resistant
- Temperature range -20 °C to +60 °C





True Glass Technology

600 SERIES



- Projected Capacitive: "True Glass "Touch screen
- From 5" inch to 21.5" inch
- Scratch & Harsh Chemical Resistant Surface
- **UV** Resistant
- Coating on all Electronic Boards
- Protection class IP66 (Front)
- DNV, ATEX, Class 1. Div 2







UNIDRIVE M



www.controltechniques.com



M700

M400

pp Rotor Flux Control for induction motors (RFC-A)





M300











Open loop permanent magnet motor control (RFC-S)

M600

Closed loop Rotor Flux Control for induction motors (RFC-A)

Closed loop permanent magnet/servo motor control (RFC-S)

Mentor MP High Performance DC Drive SM-Profibus DP SM-Interbus SM-DeviceNet SM-Ethernet SM-CANopen SM-EtherCAT Operator

M200

25A to 7400A 400V/575V/690V

M100

Two or four quadrant operation



On Board PLC

Easy to use onboard ladder logic PLC at zero cost, ideal for simple applications requiring extra drive functionality Configured using SyPTLite



SM-Applications Lite V2

Powerful automation controller using a dedicated microprocessor giving full drive parameter access Configured using SyPTLite or SyPTPro software



SM-Applications Plus SM-Register High speed motion

Powerful automation controller with drive to drive networking and full motion capability. Configured using SyPTPro software.



SM-Universal Encoder Plus

types, Input and output

MP-Keypad LCD with MP firmware

Accepts or replicates all standard feedback Incremental



SM-Keypad LED standard

Smartcard

output















and registration control Configured using SyPTPro software.





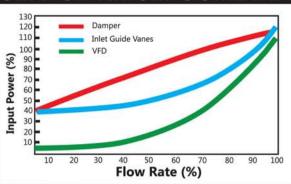
AC drives

to suit every industrial needs



HVAC/ACMV OPTIMUM COMBINATION

Reduces **Harmonics** to 5%



Affinity Law states flow, pressure and power propotionality to speed. VSD adjust fan speed to control flow and pressure. Reducing speed dramatically reduces power consumption and noise.







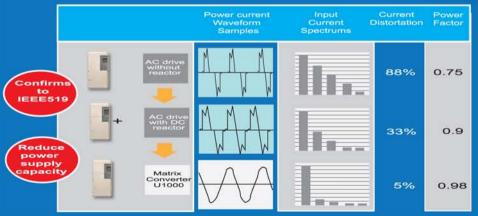
U SERIES MATRIX CONVERTOR DRIVE

- Conforms to IEEE519
- Achieving 0.98 Power Factor Efficient Energy Usage by regenerating energy to Mains supply
- Foot Prints downsized without the needs for Harmonic filters, AC reactors to save panel size
- Switching to and from commercial power without contactors, phase detectors etc

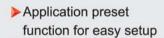


E SERIES HVAC DRIVE

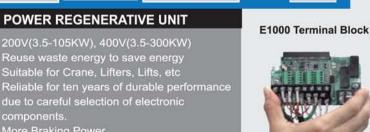
Setting	Application
00	General-purpose
01	Water Supply Pump
03	Exhaust Fan
04	HVac Fan



- due to careful selection of electronic
- More Braking Power
- 54% Energy Savings applicable to Lifts



- ▶400V class 3.7KW-630KW
- ▶ Monitor power consumption via 4-20mA output
- ▶ Components carefully selected and designed for 10 years life expectancy
- Products compiled to CE,UL,cUL & EU's RoHS directive
- Power ride through of 2s possible
- ➤ Removable Terminal Block for parameter Transfer



Wide Spectrum Harmonic Filter









VSD Input Current Waveform and



Improves VSD Performance

VSD Input Current Waveform and

Frees up system capacity by restoring VSD to near unity power factor

The most energy efficient harmonic solution for VSD's

- . Oil and Gas industry
- Water and Waste Water

Apply LINEATOR wherever

Variable Speed Drives

and 6-Pulse Rectifiers

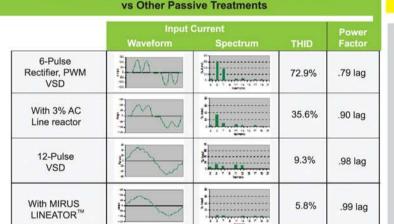
are used

- Irrigation systems
- **HVAC** systems
- Mining operations
- Marine vessels
- Printing presses
- Elevators and escalators
- . Pulp and paper processing

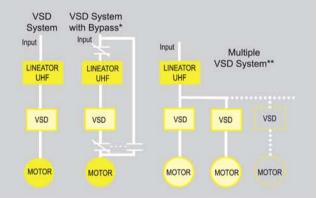
Other applications include:

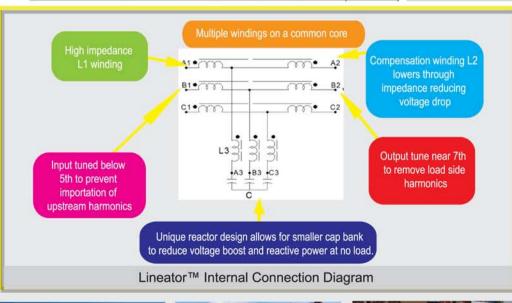
- . Induction furnaces
- . Industrial rectifiers . Welding operations
- VSD Input Current Waveform and Spectrum with LINEATOR AUHF.

Spectrum with no reactor. Spectrum with AC reactor. Performance Comparison on 60 HP PWM VSD LINEATOR™



LINEATOR™ Application













Vessel

Force & Instrumentation



JSB Load Cells

Torque Sensors



Miniature Family



In-Line Load Cell Family



S-Beam Load Cell Family



S-Beam Jr. (LSB200)



Rotary Torque Family



OEM Solutions



Z540-1





LCA Series(Compression) Canister **USB Load Cell**



LCB Series(Tension/Compression) Rod End **USB Load Cell**



LLB Series(Compression) Load Button USB Load Cell



LCF Series(Tension/Compression) Pancake USB Load Cell



LSB Series(Tension/Compression) S-Beam USB Load Cell



TAT Series(Reaction) Screw Driver **USB Torque Sensor**



TAT Series(Reaction) Socket Extension USB Torque Sensor



With Flange USB Torque Sensor



TFF Series(Reaction) Thru hole USB Torque Sensor



TRD Series(Rotary) Rotary USB Torque Sensor





IPM650 Intelligent Panel



CSG110 Strain Gage Amplifier Enclosed w/ Din Rail Mount



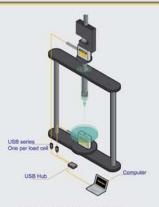
IHH500 Intelligent Digital Hand Held Display



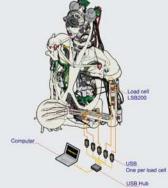
USB220 External High Resolution/Speed USB Output Kit



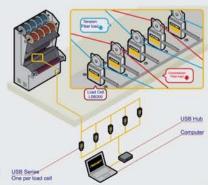
OEM Test Stand



Syringe Test Stand



Humanoid Robot Load Cell



Wire Tension Measurement

Compression Load Cell





















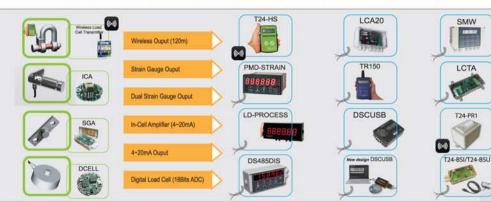






Application:

- Hanging Scales
- Material/ Tensile test
- **Engine Dynamometer**
- Process Weight
- General force measurement





- 500kg to 1500te Stainless steel
- IP67
- Simple to install



- 100kg to 1500+ te
- Stainless steel
- Many design options ATEX version



- 1te to 1500 te
- Stainless steel
- IP67
- Special version available



Magtrol Type Load Pins

- Magtrol 210 alternative 2.5 to 1250KN
- Stainless steel



Ups to 1500 ton, with free design.





SHK-D



TELSHACK-B



TELSHACK-D

Tension Compression

Load **Shackles**

IP67







Analogue Output



Telementry Load Cell Instrument



Display Drive PLC Output Printer Module PC

Interfaces









Load Links



Marine Winches

Load cells for all applications & environment









Automation















Crane Oil & Gas

Civil

Aviation

Process

Yachting

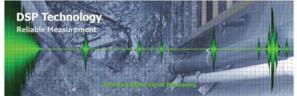
We Do Your Level Best®





Measurement, Automation & Safety





Corrosive Level Measurement

- 0.2% accuracy with little or no degradation over the range
- Auto-adaptive signal output filtering smooth liquid agitation
- Narrow 2" beam width for installation near walls or obstacles
- Tight 2" dead band optimizes the filling capacity of small tanks

Ultrasonic Level Transmitters



Material: PVDF

Level measurement range: 1.25...10m

Application:-

- O Bulk storage
- O Chemical feed
- Cooling tower
- O Day tank
- O RO/DI water O Waste sump
- Life science
- O Lift station

Level Switch Sensors - Ultrasonic, Vibration, Capacitance, Optic & Buoyancy



LV10 Ultrasonic IS Chemical



LZ12 Vibration Wastewater Universal

Output signal: 4~20mA

Pressure up to 2bar







LO10 Optic GP Various Leak







LP50 Capacitance Conductive Non-intrusive

Level Switches

- Output signal: SPDT / SPST switch output
- Up to 80 C process temperature
- Suitable for high corrosive media

- High velocity / coating media
- PP, PVDT & PFA material

Level Switch Packages - Ultrasonic, Vibration, Capacitance & Buoyancy



- Level measurement range: up to 3m
- Function: Auto fill, Empty, Hi & Lo Alarm
- Contact: 1...4SPST
- Material: PP, 316SS, PFA
- Points: Fixed & Adjustable















- Display: LCD & LED
- Function: Hi & Lo Alarm
- With repeater
- Relays output
- Input: 4~20mA



DataPoint

Ultrasonic Liquid Concentration Sensor





- Concentration and density measurement
- Phase interface detection
- Product receipt monitoring
- Neutralization
- Gas scrubbers
- Evaporators
- Polymerization monitoring
- Crystallization monitoring

SensoTech In liquids, we set the measure.

Improve quality, productivity and save resources. It's not a miracle, it's SensoTech.

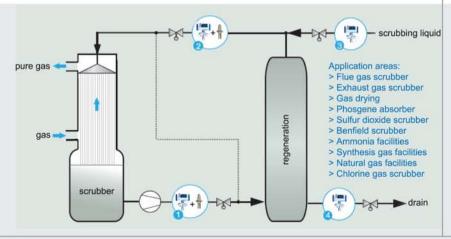




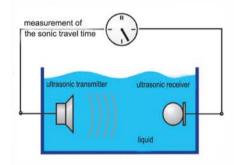


Your industry, your applications. From the complex to the extraordinary.





LiquiSonic®. The measuring system that sets new standards.



- independent of the color, conductivity and transparency of the process fluid
- > measuring accuracy up to 0.1 wt%
- high respond in measurement rate.
- installation directly in pipelines or vessels
- bypass-free installation
- robust sensor design without gaskets or moving parts, maintenance-free.
- ▶ Field application use temperature from –90 °C to 200 °C
- integrated temperature measurement
- > use at pressure up to 500 bar

Real Time Monitoring.



3 A	01.03.2005 16:52	52
NaOH, NaCL	in water	
Sodium hydroxide 2.9	7 wt%	3
Sodium chloride 19.7	3	4
106.	ite st	4

D A	01.03.2005	16:40:21	
M/F in v	vater		
Methanol	2.35 w%	~3	•
Formatin	31.53 wt%	14	•
Temperat	32.20₺	*	•

5.95 _{m%}	10.73°c	~
89.87m%	20.77 ზ	4
10.58m%	82.83 c	*
99.37m%	10.78 c	

LiquiSorio-Plato 40	01.03.2005	09:34:46	
Beer		~	(
2.94 wt%	5.46 Vol	4	(
Gravity With	Temperature	14	(
11.31°P	4.27°c	*	(

Pressure Transmitters

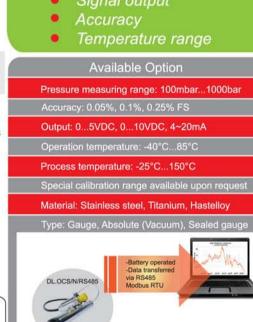




Your partner in Water Management

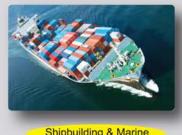
Able to customize according to your needs.

- Pressure type
- Pressure range
- Process connection
- Electrical connection
- Signal output





Data Logger



























Universal Panel Meter



Budget Indicator & High Accuracy

Input

Encoder

Vibration

Resistance

Pressure

Strain Gauge

Thermocouple

RTD

LVDT







Output

TTL Logic

PWM

Voltage

24 Linearization

Current (mA)

Serial Modbus

Alarms Output

Contact Closure



Tracker 211 Universal Input, 0.05% Accuracy 4 Digit Display



Tracker 212 24 points user linearization, 0.05% Accuracy 5 Digit Display



Tracker 220 Universal Input, 0.02% Accuracy Modbus communications

KANSAI Automation



KANSAI Automation Co.Ltd.

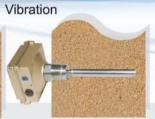


SWN-8B Standard Flange Type



NL-8B Standard Flange Type

Capacitance



KVK-111 High Sensitivity Type Screwed Joint Type

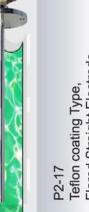
Capacitance



KVK-111 Standard Type

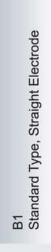
Capacitance

Diaphragm Flange Type * Detection Pipe Type





Capacitance















Precision Driven

Contact / Non-contact displacement measurement







Solartron Metrology have a wide range of gauging "pencil" probes and instruments, each designed with specific, customer driven advantages.

- Pneumatic and Spring available from 0.5mm to 20mm range
- Up to 0.05% F.S accuracy, 0.05μm repeatability, 0.01μm resolution
- Ø8mm, Ø6mm and Ø3mm probes available
- Smaller size and range probes for tight space
- Down to 3 gram tips force





A modular systems based on modbus protocol for easy low cost connections into PLC or Automation. You can combine gauging probes, Orbit LT, Orbit LTH on the same stack of modules.









communication between any PC with a Bluetooth® connection and the Orbit® sensor network. It is possible to connect up to 150 sensors to the WIM. It can take up to 25 static readings per second for up to 8 modules and is the best way to optimize readings using the read burst command.





orbit

Connect To Third Party Sensors







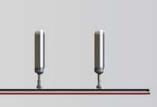
Gap Time Feature



Readings WITHOUT Gap Time



UFT checking Hard Disk Drive casing



UFT checking semi-conductor water

More Precision





Non-contact sensors for displacement and position



Laser Triangulation sensor

- Suitable for most material
- Varies models for selection
- Special model for long standoff applications
- Patented technology for surface compensation



Chromatic Confocal Sensor

- Possible to measure multi-layer coating thickness
- Miniature probe. Ø4mm
- High speed sampling up to 70kHz
- Resolution, 16nm



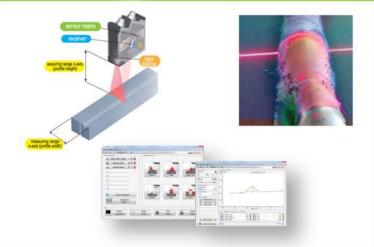
Capacitive Sensor

- 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

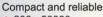
optoNCDT ILR:

Compact laser distance sensors

Response Time

Measuring Ranges
 Linearity





- 200 50000mm
- ± 20mm
- 10ms



State of the art sensor with high precision

- 100-150,000mm
- ±2mm
- 20ms



Compact and fast distance sensors (no reflector)

- 200-10000mm
- ±8mm
- 12ms

High-performance distance sensor

- 0.5-3000m
- ±20mm
- 0.5ms

Draw-wire





displacement and position sensors



Example of draw-wire sensor



- Measuring ranges to 50,000mm
- Resolution quasi infinite
- Compact overall design
- Easy mounting for any application
- High reliability and long life cycle
- Analog and digital outputs

thermoMETER

Non-contact IR temperatures sensors











- High-Performance IR sensor with double laser aiming
- Infrared sensor for general purpose applications
- Compact infrared temperature sensor for OEM applications
- Handheld devices

thermolMAGER TIM



- > Automatic hot spot detection
- Fast measurements
- Easy process integration
- Software Features
- BI-SPECTRAL technology



TIM Cooling jacket (length 228mm, ø89mm) with adjustable mounting bracket TM-JAB-TIM; recommended high temperature cable TM-USBC5H-TIM (up to 180°C)

colorSENSOR // Colour Sensors, LED Analyzers



- Compact color sensors
- Standard color sensors
- High-end color sensors
- Optical fibers

Magneto-inductive sensors for non-contact linear displacement measurement



Benefits of the measuring principle

- Selectable measuring ranges up to 55mm
- Linear output signal
- High basic sensitivity and temperature stability
- Completely non-contact
- Wear-free
- High dynamics

Industrial endoscopes for defect detection and quality assurance



Rigid endoscopes -**ELTROTEC** borescopes





Flexible Endoscopes ELTROTEC Flex



Video Endoscopes - ELTROTEC Video



Endoscopy accessories

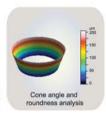


CCI—Coherence Correlation Interferometry 3D Non-contact Surface Optical Profiler

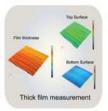




- Breakthrough method, measure smooth and rough surface in single scan
- Low noise level < 0.02nm
- Single scan range of 2.2mm
- Stitching of 3D part up to 25mm
- Optional software to do film thickness application
- Selectable model with high measurement points of up to 2048 X 2048
- High speed model available

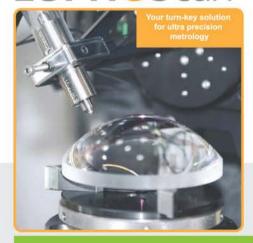






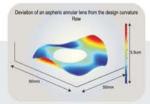


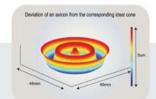
LUPHOScan

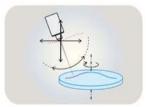


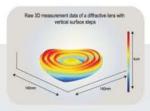
Multi-WaveLength Interferometer (MWLI) Fast Non-Contact 3D Form measurement of Aspheric Optics

- High speed 3D measurement
- Ultra high, reproducible accuracy, ±50nm
- Works for almost every material
- Measure up to 90°slope
- Measure up 120mm, 160mm or 240mm









Alignments and Autocollimators

Clinometers



For Precision angle measurement

Talyvel 6



For precise level flatness measurement

Alignment Systems



For Straightness, Alignment, Verticality, Parallelism, Squareness and Level

Ultra Dual Axis Digital Autocollimator



For measuring angle, straightness, flatness, squareness and parallelism

Surtronic product range









Portable Roughness Tester

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

S100 series

Portable Roughness Tester

- Evaluation length up to 25mm
- ▶ Up to 400µm 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 0.5µm data spacing
- 6nm gauge resolution at 1mm full range, 3nm at 0.2mm
- Straightness error of 0.4µm over 50mm
- > Patented Ball calibration to ensure integrity of data

urtronic R-Series

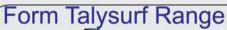
Roundness

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











- Up to 5mm gauge range
- Less than 8nm noise, Rq
- Pt error less than 0.25µm
- Resolution of 4nm

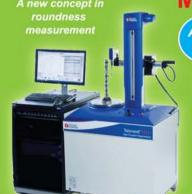


Form Talysurf PGI



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

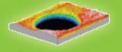
Talyrond Range



The Talyrond 500H

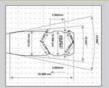
Measurement

- All in System
 - Roughness
 Roundness
 - 3. Contour
 - 4. 3D Mapping









Laser Scan Micrometer









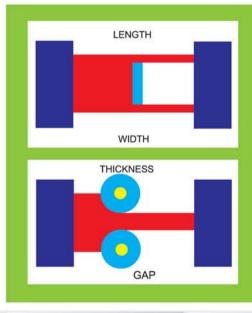


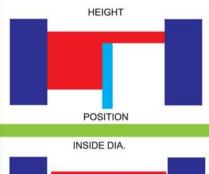


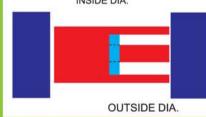
STANDARD TYPE					
Model	Range (mm)	Accuracy			
LDM-301H	0.02-1	±1 μm			
LDM-302H	0.05-5	±1 µm			
LDM-303H	0.3-30	±2 μm			
LDM-304H	0.5-90	±5 μm			
LDM-305H	1-180	± 10 µm			
LDM-306H	2-300	± 30 µm			

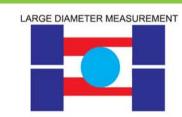
DUAL AXIS					
Model	Range (mm)	Accuracy			
=	7.0	-			
LDM-302H-XY	0.05-5	±1 µm			
LDM-303H-XY	0.3-30	±2 μm			
LDM-304H-XY	0.5-90	±5 μm			
LDM-305H-XY	1-180	± 10 µm			
LDM-306H-XY	2-300	± 30 µm			

SEPARATE SCANNER					
Model	Range (mm)	Accuracy			
Δ.	=	-			
-	(-)	_			
LDM-303H-SP	0.3-30	±2 μm			
LDM-304H-SP	0.5-90	±5 μm			
LDM-305H-SP	1-180	± 10 µm			
LDM-306H-SP	2-300	± 30 µm			















LDM-110EX



misen dis.			
1.	7	8	9
	4	5	6
	1	2	3
1	0		
8888	F5		(SOX

Applications

	LDM-110	LDM-110EX	LDM-1000	LDM-1000EX	LDM-210
No.Axes	For Single	Max. 2	Max. 5	Max. 3	For Single
Scanning cycle	400 time / sec	400 time / sec	400 time / sec	400 time / sec	2000 time / sec
No. of Averaging time	1 - 2048 (16 steps)	1 - 2048 (8 steps)	1 - 2048 (22 steps) LDM-1000LS 1 - 1024 (19 steps) LDM-1000XY		1 - 2048 (12 steps)



LDM-1000EX

Product Training Facility

Professional Training

Costs reduction and improved system designs through training

Hands-on, in-depth interaction with products in training class

Training availability in training centers across Malaysia & Singapore











Product Repairs & Services

Providing local repairs and servicing for our customers

Helping customers to reduce cost and machine down time

Works are carried out by trained and experienced technicians Quick Services & Affordable!

















Singapore Office

SCIGATE AUTOMATION (S) PTE LTD

No.1, Bukit Batok Street 22,#01-01 Singapore 659592

Tel: (65) 6561 0488 | Fax: (65) 6562 0588 | Enquiries: sales@scigate.com.sg







SCIENGATE (JB) SDN. BHD. No.72-01, Jalan Molek 1/28 Taman Molek 81100 Johor Bahru, Johor Malaysia

Tel: (60) 07 351 9806 Fax: (60) 07 351 9807 SCIENGATE AUTOMATION (M) SDN BHD (KL)

17-3 Blk E1 Dataran Prima Jalan PJU 1/42 47301 Petaling Jaya Malaysia

Tel: (60) 03 7804 7522 Fax: (60) 03 7804 7422 SCIENGATE AUTOMATION (M) SDN BHD (Penang)

14 1st Floor Tingkat Talang Satu, Taman Emas 13600 Prai Malaysia

Tel: (60) 04 399 7522 Fax: (60) 04 399 7509

*For more information, please log on to http://www.scigate.com.sg Email us at : sales@scigate.com.sg

