



Electrical Distribution & Control



Process Instrument



Your Partner in Factory Solutions



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VCB + VMC Series
Vacuum Circuit Breakers
Vacuum Magnetic Contactors



- HS Series.
- Breaking current 12.5 to 50 kA.
- Rated voltage 3.6 to 36 kV.
- Standards JEC, IEC.
- HN Series.
- Rated voltage 3.6 / 36 kV.
- Rated current 200 to 400 A.

BT3 Series
Air Circuit Breakers (ACB) NEW!



- BT3 Series (New).
- Rated current 200 to 6300A.
- Fixed and draw-out type.
- New OCR (LCD, LED).

MCCB
Modeled Case Circuit Breakers (MCCB)
Earth Leakage Circuit Breakers (ELCB)



- 32AF to 1600AF.
- 2 poles/ 3 poles/ 4 poles (MCCB+ELCB).
- BW Series.
- Frame size : 32AF, 50AF, 63AF, 100AF, 125AF, 160AF, 250AF, 400AF, 630AF, 800AF.
- SA Series.
- Frame size : 1000AF, 1200AF, 1600AF.

BW0 Series NEW!



- 2 Poles / 3 Poles.
- Frame size : 32AF, 100AF, 160AF, 250AF, 400AF.
- Available accessories.

SC And SW Series
Magnetic Contactors and Starters



- SC Series : SC-03 to SC-N16.
- SW Series : SW-03 to SW-N14.
- Thermal overload relay TR Series.
- Max motor capacity(kW)
4 kW to 440 kW (AC-3)

Motor Control
Contactors and Thermal Overload Relays

- FJ-06 to FJ-B95.
- Applied motor capacity 440VAC, NEW!
2.2 to 45kW.
- Thermal overload relays TK series.
- Energy-Saving type with an energy efficiency level of 2.(6A, 9A, 12A, 40A to 95A rated products).



SWITCH
Command Switches



- Pushbutton, illuminated pushbutton, selector switches and pilot lights.
- 16 mm, 22 mm & 30 mm.
- Lamp : Incandescent, LED.

MMS
Manual Motor Starters Magnetic Contactors



- BM3 Series.
- Frame size : 32AF to 63AF.
- Rated current : 0.16 to 32A.
10A to 63A.
- Breaking capacity : 100kA, 50kA, 25kA.
- Conformance to IEC, UL, CSA and other.

Fuji BC Series MCB NEW!
Miniature Circuit Breakers



- 6kA short circuit breaking capacity.
- In accordance with IEC60947.
- Ratings : 1, 2 and 3 poles 1-63A.
- Type C tripping characteristics (general use).
- IEC 35mm rail mounted, modular devices, 1 module (18mm/pole).
- Accessories = Snap-on fittings speed up mounting.

SK Series
Mini Contactors and Thermal Overload Relays



- NEW!
- SK Series : SK06 to SK12.
- Thermal overload relay TK series.
- Models available with AC, DC, or low-power operating coils.
- Models available with 3 different rating 6A, 9A, 12A.

FRENIC - Mini

The New Compact Inverters



- Automatic energy-saving provided as a standard function.
- PID control function.
- Output frequency maximum of 400 Hz.

FRENIC - Multi

High Performance Compact Inverters



- Noise is reduced by the built-in EMC filter.
- Dynamic torque vector control.
- CPU speed comparison 64 MHz.
- RS-485 communications (connector) is standard.

FRENIC VG1



- High overload resistance.
- Improved torque accuracy.
- Improved quick response.
- Servo function.

FRENIC-AQUA



- Wide variation in model capacity
- Optimum control by energy-saving functions
- Dedicated pump control function provided as standard
- Slim body
- User-friendly, useful functions

FN5040/5045

Output Filters



- Smooth sine wave without voltage peaks.
- Motor protection against pulse pattern stress.
- Improvement of system reliability.
- Simple to install.

YESO

DQ Resistor Series

Tubular Ceramic, Wave-Type Wire-Wound Resistor



- A tubular ceramic resistor has two terminals and wound with a resistance element consisting of a wave-shaped alloy ribbon.

FRENIC - MEGA

High Performance Multifunctional Inverters



- Applicable control methods : PG vector control, sensorless vector control, dynamic torque vector control and V/f control.
- Improved durability in overload operation.
 - HD (High duty) spec : 200% for 3 sec & 150% for 1 min.
 - LD (Low duty) spec : 120% for 1 min.
- Keypad with a USB connector (Option).

FRENIC - ACE **NEW!**



- Sensor-less dynamic torque vector control.
- Sensor-less vector control for Permanent Magnetic Synchronous Motor as standard.
- CANopen standard equipped.
- CANopen communication is available via RJ-45 connector.

FRENIC4600FM5e

Medium Voltage Inverter for Induction motors (3.3kV or 6.6kV)



- High efficiency.
- Clean power Input.
- Stable operation and energy saving.
- 36-Pulse rectifier.
- Low current harmonics (no harmonic filter).
- High Power factor, 0.95 or more (no external capacitors).

FRENIC-Lift



- Dedicated inverter for lift applications
- User friendly
- Low maintenance: Long-life design
- Speed control accuracy: + 0.01%
- Current loop bandwidth: 500 Hz
- Powerful: 200% of rated current for 10 s
- 4.0 kW to 45 kW (3 ph 400 V supply)
- 5.5 kW to 22 kW (3 ph 200 V supply)
- 2.2 kW (1 ph 200 V supply)
- TP-G1-ELS (multifunctional keypad, 12 languages available)

FRENIC-HVAC



- Cooling tower fan
- Cooling water pump
- Chilled water pump
- Supply fan / Return fan

ALPHA 5 Smart Fuji Servo System



- High-speed, high-precision positioning.
- Frequency response 1500 Hz.
- High resolution encoder 18-bits ABS/INC, 20-bits INC
- Positioning function built in as standard.
- 3 in 1 functionality :
 - Positioning via Modbus- RTU communications.
 - Positioning via Di/Do signal.
 - Positioning speed, torque control via pulse/analog input

SPH Programmable Controller



- Program scan time of 1 ms is implemented by increased instruction processing speed.
- Real number operation and high-precision positioning control have been put to practical use by dramatically improved float-point operation speed.
- The SPH300 allows tact time setting in 0.5 ms units with a minimum setting of 0.5 ms.
- The programming language conforms to the IEC 61131-3 international standard.

Integrated Controllers MICREX-SX Series PLC - SPE



- Compact size 20,30,40,60 point basic unit
- two programming languages
- Large-capacity memory
- Self-lifting terminal block & finger protection
- Communication & Networking
- Diversified functions for expanding applications
- Adapted to analog control

New-generation PXF Series Digital Temperature Controller **NEW!**



- Largest bright color LCD in the industry
- High speed sampling : 50ms
Fast processing : 100ms
- Universal input
- The best-in-class compact : 58mm depth
- Multidrop master function (option)

PHR Series Paperless Recorder



- Wide variety of display mode
- Large-capacity data storage
- Easy operation with on-screen guidance
- Data viewer and parameter loader software provided as standard
- Compact design: 160 x 144 x 185 mm, 1.5 kg
- RS485 (MODBUS) (option)
- Ethernet (option)

FALDIC ALPHA 5 Fuji Servo System



- Speed control 1500, 2000, 3000 RPM.
- Maximum size 50 W-5 kW.
- PTP Positioning.
 - Modbus-RTU
- 3 in 1 ---- Di/Do signal
 - Pulse/Analog



APEX DYNAMICS, INC.

AB/ABR Series High Precision Planetary Gearbox



- True helical gear design.
- Triple split collet with dynamic balanced set collar clamping system.
- A special non-electrolysis Nickel surface treatment .
- Lubricated with Nyogel 792D synthetic grease.
- In-house plasma nitriding heat treatment.
- Solid needle roller bearings without cage.

V9 Series **NEW!**



- The new MONITOUCH series.
- Scales new heights of excellence.
- Display 16.7 million colors for delicate expression of gradation.
- Enhanced safety feature while connecting to various types of network.

V8 Series Expanding The Possibilities Of The Future



- Our monitouch HMI V8 series ranges from 5.7" up to 15".
- This series can communicate up to 8 different PLCs, drives and temperature control protocols, which allows you to simultaneously exchange the data as a gateway.
- High-resolution display of 65536 colors.
- High-level images displayed of 30 fps.
- USB high compatibility support card reader keyboard, mouse and printer.

PHF Series Paperless Recorder



- Data saving on CompactFlash
- Data viewer and parameter loader software provided as standard
- Ethernet (option)
- Lithium-ion battery driven version available
- Quick search and display of past data
- 3 or 6 input channels

INSTRUMENT

FE Fuji Electric Innovating Energy Technology

Infrared Gas Analyzer



- Simultaneously and continuously measures concentrations of 5 different gases of NO_x, SO₂, CO, CO₂, O₂ (and, optionally, N₂O and CH₄).
- Adopts a double beam infrared analyzer, a Zirconia type oxygen meter or magnetic oxygen meter with high sensitivity and excellent long-term stability.
- The maintenance type on the front saves space.

Ultrasonic flow meter



- 2 type of Ultrasonic flow meter between Portable and Fixed type.
- Measurement range : -32 to 0 to 32m/s
- Analog output signal : 4 to 20 mA.
- Accuracy : 1.0% of rate.

Pressure Transmitter



- Best accuracy of 0.04 %
- 5 Digits LCD display.
- Full range of hazardous area approvals.
- HART communication protocol.
- Dry calibration without reference pressure.



Loop Calibrator

- Accuracy 0.01 % of reading.
- Measurement: mA, VDC.
- Source: mA.



DPI620G Multi-Function Calibrator



- The Genii comes with full HART and optional Foundation Field bus capability.
- Documenting and data logging.
- 31 interchangeable pressure modules from Vacuum to 1000 bar.

JCT Analysentechnik Gas Sampling systems

- Gas conditioning Gas Cooler Heated Sampling line
- Gas Sampling pump (Ex.).
- Gas sampling pump Condensate pump
- Pre-Condensate Gas sampling probe.



Gas Analyzer System for Biogas Application



- Internal measurement of up 5 gas component.
- High-precision measurement of CH₄ and CO₂
- Customized measured gas preparation.
- Measuring cycle freely selectable.
- Integrated evaluation of minimum 3 external measuring units.
- Reliable permanent operation.



Digital Test Gauge with hand pump



- Accuracy 0.05 % of full scale.
- Pressure ranges to 20,000 psi (1400 bar).

PV210	PV211	PV212	PV411
-0.9 to 3 bar	-0.96 to 40 bar	0 to 1000 bar	-0.95 to 700 bar

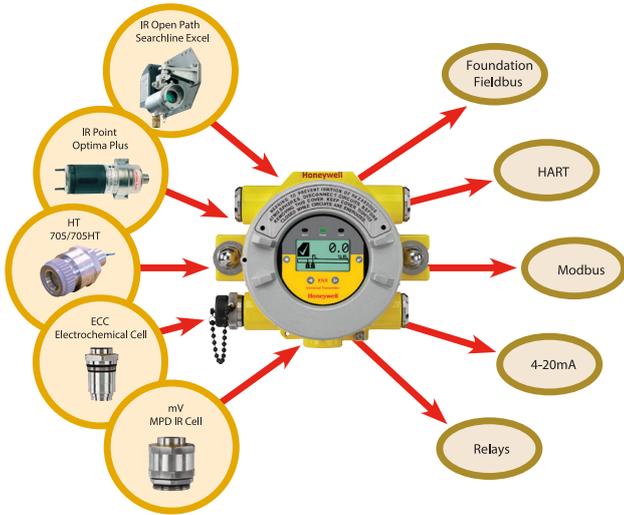
Advanced Modular Calibration System



Honeywell

Analytics

XNX Universal Transmitter



Searchpoint Optima Plus



- Advanced infrared point gas detector.
- Designed for the O&G & Petrochemical Industry.
- Stainless Steel 316 Housing.
- Fast Response to gas (T90= < 6.5seconds).
- 4-20mA signal output, for 0-100% LEL.
- Lifetime >15 years.
- MODBUS/ HART multi-drop option.

Searchline Excel



- Fast speed of response provides earliest warning of gas release.
- Available Gases: Methane, Ethane, Propane, Butane, Pentane, Ethylene, Propylene, Ethanol, Methanol.
- Range: 0 to 5 LEL.m.
- Path Lengths: Short Range 5 to 200 m.

Flame Detector



- The Fire Flame detector processes UV, IR and Visible (VIS) spectral ranges.
- Detects hydrocarbon and non-hydrocarbon based fires.
- Field-of-View: 120° full 100% cone-of-vision.
- Ultra-high speed response to explosive fires.
- RS-485 ModBus communications.
- Alarm, Fault and Fire Verification relays.
- FM, ATEX, CE mark approvals.
- Explosion-proof housing.

Gas Controller Touchpoint Pro



- Central controller with color LCD touch screen user interface.
- The easy plug-in I/O modules (Max.16 module / 64 Chanel) and power supply units, mounted on a communication and power rail assembly, allow highly flexible configuration, expansion and modification.
- Touchpoint Pro offers a comprehensive range of outputs including relays, digital outputs and industry standard protocols like Modbus®

XCD and Series 3000 MKII/MKIII transmitter Gas Detector



- Gas detector 2 or 3 wire 4-20mA Output.
- Series 3000 MKII Replaces Sieger.
- Sensepoint XCD LCD Status back-light (Green/Red/Yellow).
- Catalytic or infrared for Flammable gas.
- RELAYS, 2 ALARMS and 1 FAULT, fully configurable.

gasclip technologies

- 2 month battery life on a single charge.
- LEL sensor (IR) does not require oxygen.
- Internal pump (optional).
- Full function self-test upon activation Sensors, battery and circuitry conditions.

GasClip - Portable Gas Detector

