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Lakeside Process Controls Ltd.
www.lakesidecontrols.com
Lakeside is an employee-owned Canadian company with over 70 years as a process automation industry leader. Since 1952, we have been providing innovative automation solutions with superior customer service and the highest regard for safety. Lakeside operates as the highest value channel partner for Emerson Automation Solutions’ technology. As an Emerson Impact Partner, we take pride in being the exclusive and locally-accessible singular point of contact for leveraging the full breath of Emerson’s integrated solutions and expertise across Central-Canada.

We understand that you face constant pressure to cut costs, increase output, reduce energy use, and improve safety and emissions, all with fewer experienced workers than ever before. That is why companies turn to Lakeside for technologies, services and our expertise to solve pressing problems to keep your operations running better, longer, and safer than ever before.

We provide a wide range of industry specific products and services:

**MEASUREMENT INSTRUMENTATION**

The broadest range of measurement and analytical technologies for process clarity and insight.

**FINAL CONTROL**

Highly reliable final control technologies to help you regulate and isolate your process with certainty.

**AUTOMATION SOLUTIONS**

The systems and tools that provide the decision integrity to run your operation at its full potential.

**RELIABILITY**

If you know the health of your rotating mechanical assets, you are able to plan for repairs rather than react to unexpected failures.

**SOLVE & SUPPORT**

Expertise and local resources to help you define, implement, and support a strategy to maximize returns from your assets through their lifecycle.
PRESSURE
- Gage, Absolute & Differential Transmitters
- Multivariable Transmitters & Flow Meters
- Factory Assembled & Tested Manifolds
- Diaphragm Remote Seals
- Hygienic Sanitary Transmitters

TEMPERATURE
- Single Point Transmitters
- High Density Multipoint Transmitters
- RTD & Thermocouple Sensors
- Thermowells
- Multipoint & High Sensors
- Non-Intrusive Sensors
- Hygienic Sanitary Transmitters

LEVEL
- Differential Pressure Level Transmitters with Diaphragm Seal Systems
- Electronic Remote Sensor (ERS™) System
- Guided Wave Radar Level Transmitters
- Non-Contacting Radar Level Transmitters
- Ultrasonic Point & Continuous Level Transmitters
- Electromechanical Float Level Switches
- Volume & 3D Level Transmitters for Solids
- Vibrating Fork Liquid Level Switches
- Magnetic Level Indicators & Magnetostrictive Level Transmitters
- Non-Contacting Radiometric Level Transmitters
- Hygienic Sanitary Transmitters

FLOW, DENSITY & VISCOSITY
- Differential Pressure Flowmeters
- Magnetic & Ultrasonic Flow Meters
- Standard, Reducer & Multivariable Vortex Flowmeters
- Liquid, Gas & Slurry Coriolis Flow & Density Meters
- Gas Density & Gas Specific Gravity Meters
- Liquid Density & Concentration Meters
- Liquid Viscosity Direct Insertion Meters
- Custody Transfer Approved Flow Meters
- Hygienic & Low Flow Applications
- Non-Contacting Radiometric Density Transmitters
- Non-Contacting Radiometric Bulk Flow Meters

TANK GAUGING
- Inventory & Custody Transfer Radar Level Gauges
- Multi-Input Temperature Transmitters
- Cool Down & Leak Detection Sensors for use with Cryogenic & LNG Tanks
- Water Level Sensors
- Terminal Automation & Logistics Software

IIOT & WIRELESS SOLUTIONS
- Predictive Intelligence Monitoring Software
- Corrosion & Erosion Monitoring
- Switch Gear Monitoring Systems
- Accoustic Transmitters (Steam Trap & Relief Valve Monitoring)
- Pressure, Level, Temperature & Flow Transmitters
- Gateways & Adaptors
- Gas Detection Sensors
MEASUREMENT INSTRUMENTATION

PRESSURE GAUGES & THERMometers
- Pressure Gauges
- Temperature Gauges
- Non-Contacting Thermometers
- Wireless Pressure Gauge

FLAME & GAS
- Combustible Gas Detection
- Toxic Gas Detection
- Flame Detectors
- Wireless & Wired Gas Leak Detectors

ANALYTICAL
- Sensors for Continuous Process Monitoring of pH, ORP, Conductivity, Resistivity, Oxygen, Chlorine, Ozone, & Turbidity
- Packaged Gas Leak Detection Systems Solutions
- Combustion Flue Gas Analyzers for In Situ Oxygen, Carbon Monoxide & Opacity Dust Density Applications
- Process Gas Analysis (Oxygen, NDIR, Ultraviolet, Thermal Conductivity)
- Customized & Pre-Engineered Continuous Emissions Monitoring Systems
- NO & NOx Analyzers
- Process Hydrocarbon Analyzers
- Process & Natural Gas Chromatographs
- Hygienic Sanitary Sensors
- Quantum Cascade Laser Based Analyzers for H2S & Trace Moisture
CONTROL VALVES

Sliding Stem Valves
- General Service
- Low Flow

Rotary Valves
- Vee Ball (Segmented Ball)
- Butterfly
- Plug Valves

Special Applications
- Sanitary Valves
- Severe Service Valves
- Desuperheaters & Steam Conditioning
- Nuclear

Accessories
- Digital Valve Controllers
- Pneumatic Controllers
- Electro-Pneumatic Positioners

PRESSURE MANAGEMENT

Relief Valves
- Direct Spring Relief Valves
- Pilot Relief Valves
- Change Over Devices (Safety Selector Valves)

Regulators
- Process Pressure Regulators
- Liquids Pressure Regulators
- Steam Pressure Regulators
- Natural Gas Pressure Regulators
- Tank Blanketing Regulators

Tank Protection
- Pressure/Vacuum Relief Valves
- Tank Vents
- Flame Arrestors

Steam Traps
- Process Thermodynamic Steam Traps
- Repairable Drip and Tracer Steam Traps
- Process Thermostatic Steam Traps
- Disc Steam Traps
- Drip and Tracer Steam Traps
- Wye Type Strainer

Rupture Disks
- Rupture Disks & Safety Heads
FINAL CONTROL

ISOLATION VALVES

Butterfly Valves
- Resilient Seated
- High Performance
- Lined

Triple Offset Valves

Ball Valves
- Floating
- Trunnion
- Severe Service
- Lined

Gate, Globe & Check Valves

Knife Gate Valves

Fuel Gas Isolation Valves

Diaphragm Valves

ACTUATION TECHNOLOGIES

Pneumatic Actuators
- Rack & Pinion
- Scotch Yoke

Electric Actuators

Hydraulic Actuators
- Electro-Hydraulic
- Gas-Hydraulic

Accessories
- Solenoid Valves
- Switches & Valve Controllers
AUTOMATION SOLUTIONS

PROCESS CONTROL SYSTEMS
- Distributed Control System
- DeltaV PK Stand Alone Control
  - Scaleable for Smaller Skid Control

SAFETY INSTRUMENTED SYSTEMS (SIS)
- Stand Alone Safety Instrumented System
- Integrated Control & Safety System
  - Burner Management (BMS)
  - Emergency Shutdown (ESD)
  - Fire & Gas (FGS)
  - High Integrity Pressure Protection (HIPPS)

PROCESS SIMULATION SYSTEMS
- Virtual Plant: Real Time Process Simulation
- Scenario-based Operator Training
- High Performance Simulation

SCADA SYSTEMS
- Complete Monitor and Control SCADA

REMOTE AUTOMATION SYSTEMS
- Remote Terminal Units
- Flow Metering & Computing

OPERATIONS & BUSINESS MANAGEMENT
- Operation Improvement Software
- Manufacturing Execution System
- Terminal Operations Management
- Energy Management

POWER INDUSTRY AUTOMATION SOLUTIONS
- Turbine Control Solutions
- Excitation Control Solutions
- Industry focused DCS for Power & Water
- Industry focused SIS for Power & Water
- Industry focused SCADA for Power & Water

COMPLETE AUTOMATION SOLUTIONS
- Custom Electrical, Mechanical Design & Fabrication
- Industrial Uninterruptable Power
- Project Management & Construction Management
- Automation Design, Development & Commissioning
- Specialized in Control System Modernization
- Process Performance Optimization
- Advanced Controls & Control Strategy Improvement
- Lifecycle Support of Automation Assets
RELIABILITY

Complementary Brands

- PROGNOST
- FLIR
- UE SYSTEMS INC
- DES-CASE
- Spectro Scientific
- IMI SENSORS

ONLINE MACHINERY HEALTH MONITORING

- Machinery Online Protection Systems
- Machinery Online Prediction Systems
- Protection & Prediction for Reciprocating Equipment

PORTABLE TECHNOLOGIES

- Route Based Vibration Analyzer
- Portable Vibration Analyzer
- Vibration Monitoring & Analysis
- Machinery Health Monitoring Sensors
- Infrared Thermography
- Airborne & Structural Ultrasonic
- Precision Lubrication
- Portable Oil Analyzer

ASSET MANAGEMENT

- Field Device Management Software
- Machinery Health Management Software
- Handheld Field Device Communicator

RELIABILITY SOLUTIONS

- Consulting for Maintenance & Reliability Implementation
- Maintenance & Reliability Training or Mentoring
- Condition Monitoring PdM Services
- Advanced Diagnostic Services
ASSET RELIABILITY SERVICES

- Criticality Assessment
- Maintenance Strategy Development
- KPI Development
- Reliability Centred Maintenance Facilitation
- Inventory Management
- Scheduling & Planning
- Outage Management
- Asset Obsolescence Planning
- Root Cause Analysis
- Failure Modes Effect Analysis
- Preventive & Predictive Maintenance Optimization
- Energy Audits

AUTOMATION SYSTEMS

- Guardian Support
- System Upgrade
- Scheduled On-Site Service
- Factory Module Replacement
- Patch Management
- Preventative & Reliability Maintenance
- Local Spares Support
- Emergency Service
- Automated Backup & Recovery
- System Health Monitoring
- Alarm Maintenance & Operations Service

INSTRUMENTATION

- Calibration
- Scheduled Maintenance
- Outage Management
- Emergency Support
- Evaluations
- Predictive Diagnostics
- SmartMeter Verification Services
- Smart Start Startup Services

ELECTRICAL

- Power & Grounding Audits
- Thermography
- Power Quality Audits
- Automation Installation
- Communications Installation & Testing

MACHINERY HEALTH

- Vibration Analysis
- Dynamic Balancing
- Laser Alignment
- Machinery Troubleshooting
- Modal & ODS Analysis
- Training & Mentorship
- Oil Analysis
- Acceptance Testing
MECHANICAL SERVICES | FIELD & IN-HOUSE

- Actuator Rebuilds
- Upgrades & Conversions
- On-Site Relief Valve Services
- Steam Testing & Certifications
- Asset Management Services
- Repairs & Preventative Maintenance of Electric & Electro Hydraulic Actuators
- Recommended Spares, Drawings & Wiring Diagrams Available
- Start-up & Calibration Services
- Cleaning (O2), Sandblasting & Repainting

CAPABILITIES INCLUDE:

- Repairs & certifications of all Manufacturer’s Relief Valves, Sizes 1/2” through 8”
- Set Pressures up to 3000 psi
- Air, Gas and Liquid Services