A well thought out Predictive Maintenance program allows for convenient scheduling of corrective maintenance, ultimately avoiding unexpected equipment failure. The key is knowing “the right information in the right time”. Knowing when equipment requires maintenance, work can be better planned, thus increasing productivity. Other potential advantages include extended equipment life, reduced workplace accidents and increased plant optimization. An effective Predictive Maintenance program relies on the use of innovative tools and technology to gain insight and further analysis on various measurements such as vibration and temperature, for example.

**Hardness Tester**
- Measures a wide range of materials including: cast steel, alloy steel, stainless steel, aluminum, bronze, copper and cast irons
- Measures 7 types of hardness scales: Rockwell (HRC, HRB, HRA), Brinell (HB), Leeb (HL), Vickers (HV) and Shore (HS)
- Stores up to 350 measurements
- Includes D impact device, Leeb test block, small supporting ring, nylon brush, AC adapter, USB cable, software and carrying case

Model No R9030

**Ultrasonic Thickness Gauge**
- Measures the thickness of steel, cast iron, aluminum, red copper, brass, zinc, quartz glass, polyethylene, PVC, grey cast iron and nodular cast iron up to 7.9” (200mm)
- Displays sound velocity at the touch of a button
- Automatic material calibration
- User selectable unit of measure (in/mm)
- Includes probe, ultrasonic couplant gel, batteries and hard carrying case

Model No TM-8811

**Coating Thickness Gauge**
- Automatic recognition for ferrous and non-ferrous substrates
- Single/continuous measuring modes
- User adjustable high/low alarms
- Min/Max and Average functions
- Memory stores up to 400 readings
- Includes calibration iron, calibration aluminum, reference films, USB cable, software, batteries and hard carrying case

Model No ST-156

**Hardness Tester**
- Shore “A” durometer measures hardness of rubber, elastomers, natural rubber products, neoprene, polyester, resin, leather and soft PVC
- Meets DIN 53505, ASTM D2240, ISO 7819 and JISK 7215
- Maximum and Average functions
- Zero adjustment button
- Includes wrist strap, test block, batteries and hard carrying case

Model No HT-6510A

**Ultrasonic Thickness Gauge**
- Measures the thickness of metals, plastic, ceramics, composites, epoxies and glass up to 15.7” (400mm)
- Internal memory stores up to 500 measurements
- Displays sound velocity at the touch of a button
- User adjustable High/Low alarms
- Includes probe, ultrasonic couplant gel, batteries and hard carrying case

Model No R7900

**Coating Thickness Gauge**
- Measures the thickness of non-magnetic coatings on magnetic or non-magnetic metal substrates
- User selectable µm/mils
- Automatic probe recognition
- Automatic calibration
- Zero adjustment button
- Includes ferrous probe, non-ferrous probe, calibration standards, battery and hard carrying case

Model No CM-8822
**Temperature Simulator**

- Source 8 thermocouple types, including R, S, B, E, K, J, T, N; and 7 RTD types, including Pt 10 (385), Pt100 (385), Pt200 (385), Pt500 (385), Pt1000 (385), Cu10, Cu50; plus volts and ohms
- Internal cold junction compensation
- Includes test leads, alligator clips, thermocouple adapter, protective holster and batteries

**Model No R2800**

**Thermocouple Calibrator**

- Source and measure 8 thermocouple types, including R, S, B, E, K, J, T, N; and volts
- Internal cold junction compensation
- Zero adjustment button
- Easy to read 6-digit LCD display
- User selectable unit of measure (°F/°C)
- Includes test leads, alligator clips, thermocouple adapter, protective holster and batteries

**Model No R2810**

**Voltage/Current Simulator**

- Setup and calibrate process devices such as transducers, indicators, recorders and controllers
- Provides adjustable 0 to 20mA and 0 to 10V calibration source
- Large, 5-digit LCD display
- Automatic calibration
- Includes test leads, alligator clips, protective holster and batteries

**Model No R5800**

**AC/DC Clamp Meter, 500A**

- Measures AC/DC current and voltage, resistance, capacitance, frequency, duty cycle and temperature
- True RMS AC measurements
- Diode test and continuity check functions
- Built-in non-contact voltage detector and contact thermometer
- Includes test leads, thermocouple wire probe, thermocouple adapter, batteries and soft carrying case

**Model No R5030**

**Voltage/Current Calibrator**

- Measure and calibrate current signals (±199.99mV/19.99mA)
- Power or measure two-wire current loops
- Easy-to-read backlit LCD display for use in dimly lit environments
- Cat. III 600V safety rating
- Includes test leads, battery and soft carrying case

**Model No R8800**

**AC/DC Clamp Meter, 1000A**

- Measures AC/DC current and voltage, resistance, capacitance and frequency, duty cycle and temperature
- True RMS AC measurements
- Diode test and continuity check functions
- Non-contact voltage detector with LED indicator built into clamp tip
- V.F.C (variable frequency control) mode
- Includes test leads, batteries and soft carrying case

**Model No R5040**

**Loop Calibrator**

- mA sourcing, simulation and measurement
- Simulate mA and % with 0.001% display span
- Selectable step or ramp outputs
- Internal 24V loop power supply
- 0-28 VDC measurement to check loop voltage
- Includes test leads, alligator clips, protective holster and batteries

**Model No R5820**

**mA Clamp Meter**

- Measures AC/DC current/voltage, resistance and capacitance
- True RMS AC measurements
- High resolution AC/DC mA readings
- Diode test and continuity check functions
- Non-contact voltage detector with LED indicator built into clamp tip
- V.F.C (variable frequency control) mode
- Includes test leads, batteries and soft carrying case

**Model No R5015**
**Gloss Meter**
- Capable of measuring up to 200 gloss units (GU)
- Multi-angle measurement (20°/60°/85°)
- Meets international gloss measurement standards (ASTMD523, ASTM1455, ASTMCS54 and ASTM2457)
- Internal memory stores last 254 data points
- Includes calibration standard, cleaning cloth, AC adapter and hard carrying case

Model No R7700

**TRMS Digital Multimeter**
- Measure AC/DC voltage and current, frequency, resistance, capacitance and temperature
- True RMS AC measurements
- 4-20 mA process loop measurements
- Built-in non-contact voltage detector
- IP67-rated dust and waterproof
- Includes temperature adapter/probe, test leads, weatherproof plugs, soft carrying case and batteries

Model No R5010

**Contact/Photo Tachometer**
- Measures the RPM (revolutions per minute) of rotating objects without contact
- Digital counter counts moving objects passing through the instrument’s field of view
- Internal memory recalls maximum, minimum values as well as last value stored
- Built-in laser pointer identifies target area
- Includes reflective tape, batteries and soft carrying case

Model No R7050

**Vibration Meter/Datalogger**
- Measures velocity and acceleration to determine vibration levels
- RMS, Peak hold, Data hold and Max/Min functions
- 10Hz to 1kHz frequency range
- Real-time datalogger with integral SD memory card
- Includes vibration probe with 47” (1.2m) cable, batteries and hard carrying case

Model No SD-8205

**Portion Control Scale**
- Measuring Range: 5000 g/9 lb/15 oz
- User selectable metric and imperial units of measure
- Full tare capacity
- Large backlit LCD display with overload indicator
- Stainless steel platform
- Includes batteries

Model No R9800

**TRMS Multimeter/Datalogger**
- Measure, record and review AC/DC voltage and current, frequency, resistance, capacitance and temperature
- True RMS AC measurements
- Wireless Bluetooth connectivity
- IP67-rated dust and waterproof
- Includes test leads, type K thermocouple wire probe, thermocouple adapter, weatherproof plugs, li-ion battery, AC adapter and software

Model No R5005

**Photo Tachometer/Counter**
- Measures RPM (revolutions per minute) of rotating objects without contact
- Digital counter counts moving objects passing through the instrument’s field of view
- Internal memory recalls maximum, minimum values as well as last value stored
- Built-in laser pointer identifies target area
- Includes reflective tape, batteries and soft carrying case

Model No R7140

**Portion Control Scale**
- Measuring Range: 15 kg/33 lb/529 oz/15000g
- User selectable metric and imperial units of measure
- Auto calibration feature
- Full tare capacity
- Large backlit LCD display
- Stainless steel platform
- Includes rechargeable batteries, power adapter and protective cover

Model No R9850
**Thermocouple Thermometer**
- Single input type-K thermocouple thermometer
- Ranges: -58 to 2000°F (-50 to 1300°C) and 223 to 2000 Kelvin
- User selectable °C, °F or Kelvin and resolution of 0.1 or 1°F (0.1 or 1°C)
- Max and Data Hold functions
- Includes beaded wire thermocouple probe, protective holster, battery and soft carrying case

**Model No R2400**

**Infrared Thermometer**
- Non-contact temperature measurement of hot, hazardous or hard-to-reach objects from a safe distance
- Built-in laser pointer identifies target area
- 8:1 distance to spot size ratio
- Fixed emissivity covers 90% of applications
- Includes battery

**Model No R2001**

**Thermal Imaging Camera**
- 80 x 80 IR resolution (6,400 pixels)
- 2.8” color LCD display
- Built-in laser and white LED flashlight
- Capture both infrared and visual images and record video with audio annotations
- Includes Li-ion battery, AC adapter with plugs, micro SD card, USB and HDMI cable, earphones, wrist strap, software and carrying case

**Model No R2050**

**Thermocouple Thermometer/Datalogger**
- Displays up to 4 separate measurements simultaneously
- Accepts Type K, J, R, S, E, T thermocouple and RTD probes
- Temperature differential (T1-T2), Max/Min and Data hold functions
- Real-time data logger with integral SD memory card
- Includes batteries

**Model No SD-947**

**Digital Stem Thermometer**
- Pocket-sized stem thermometer with 4.75” (121mm) stainless steel probe and easy-to-read LCD display
- Measures from -40 to 450°F (-40 to 230°C)
- User-selectable °C/°F
- Water resistant construction
- Includes protective probe cover and battery

**Model No R2000**

**Infrared Thermometer**
- Thermocouple Thermometer with integral type K thermocouple input for contact temperature measurements
- 30:1 distance to spot size ratio
- Digitally adjustable emissivity
- Max, Min, Avg and Differential readings
- Memory stores up to 20 data points
- Includes beaded wire thermocouple probe, battery and soft carrying case

**Model No R2005**

**Thermal Imaging Camera**
- 160 x 120 IR resolution (19,200 pixels)
- 3.5” color TFT LCD touch screen
- 4 image modes (infrared/visual/infrared overlay/picture in picture)
- Video recording with voice annotations
- Includes 7.5mm lens and cap, micro SD memory card, video output and USB cable, headset, hood, tripod adapter, shoulder strap, two rechargeable batteries, AC adapter, software and carrying case

**Model No R2100**

**Thermocouple Thermometer/Datalogger**
- Displays up to 4 separate measurements simultaneously
- Accepts Type K, J, R, S, E, T thermocouple and RTD probes
- Temperature differential (T1-T2), Max/Min and Data hold functions
- Real-time data logger with integral SD memory card
- Includes batteries

**Model No SD-947**

**Digital Caliper**
- Large, easy-to-read 6-digit LCD display
- User selectable units of measure (in/mm)
- Zero adjustment button
- Lock screw to hold slide in position
- Hardened stainless steel head and body
- Includes screwdriver, battery and hard carrying case

**Model No R7400**

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**www.REEDINSTRUMENTS.com**
1-877-849-2127 | info@reedinstruments.com