ESSENTIAL INSTRUCTIONS

Read this page before proceeding!

Your Rosemount Analytical instrument purchase is one of the finest available for your particular application. These instruments have been designed, and tested to meet many national and international standards. Experience indicates that its performance is directly related to the quality of the installation and knowledge of the user in operating and maintaining the instrument. To ensure their continued operation to the design specifications, personnel should read this manual thoroughly before proceeding with installation, commissioning, operation, and maintenance of this instrument. If this equipment is used in a manner not specified by the manufacturer, the protection provided by it against hazards may be impaired.

- Failure to follow the proper instructions may cause any one of the following situations to occur: Loss of life; personal injury; property damage; damage to this instrument; and warranty invalidation.

- Ensure that you have received the correct model and options from your purchase order. Verify that this manual covers your model and options. If not, call 1-800-854-8257 or 949-757-8500 to request correct manual.

- For clarification of instructions, contact your Rosemount representative.

- Follow all warnings, cautions, and instructions marked on and supplied with the product.

- Use only qualified personnel to install, operate, update, program and maintain the product.

- Educate your personnel in the proper installation, operation, and maintenance of the product.

- Install equipment as specified in the Installation section of this manual. Follow appropriate local and national codes. Only connect the product to electrical sources specified in this manual.

- Use only factory documented components for repair. Tampering or unauthorized substitution of parts and procedures can affect the instrument enclosure’s performance and cause unsafe operation of your process.

- All instrument enclosures must be closed and protective covers must be in place unless qualified personnel are performing maintenance.
**WARNING**

**RISK OF ELECTRICAL SHOCK**

- Equipment protected throughout by double insulation.
- Installation and servicing of this product may expose personnel to dangerous voltages.
- Main power wired to separate power source must be disconnected before servicing.
- Do not operate or energize instrument with case open!
- Signal wiring connected in this box must be rated at least 240 V for European mains operation.
- Non-metallic cable strain reliefs do not provide grounding between conduit connections! Use grounding type bushings and jumper wires.
- Unused cable conduit entries must be securely sealed by non-flammable closures to provide enclosure integrity in compliance with personal safety and environmental protection requirements. Unused conduit openings must be sealed with Type 4X or IP66 conduit plugs to maintain the ingress protection rating (Type 4X).
- Electrical installation must be in accordance with the National Electrical Code (ANSI/NFPA-70) and/or any other applicable national or local codes.
- Operate only with front panel fastened and in place.
- Safety and performance require that this instrument be connected and properly grounded through a three-wire power source.
- Proper use and configuration is the responsibility of the user.

**CAUTION**

This product generates, uses, and can radiate radio frequency energy and thus can cause radio communication interference. Improper installation, or operation, may increase such interference. As temporarily permitted by regulation, this unit has not been tested for compliance within the limits of Class A computing devices, pursuant to Subpart J of Part 15, of FCC Rules, which are designed to provide reasonable protection against such interference. Operation of this equipment in a residential area may cause interference, in which case the user at his own expense, will be required to take whatever measures may be required to correct the interference.

**CAUTION**

This product is not intended for use in the light industrial, residential or commercial environments per the instrument’s certification to EN61326-1:2006.
QUICK START GUIDE – 56 Dual Input Analyzer

1. Refer to mechanical installation instructions on page 5.
2. Wire sensor(s) to the signal boards. See wiring instructions on page 8. Refer to the sensor instruction sheet for additional details. Make current output, alarm relay and power connections.
3. Once connections are secured and verified, apply power to the analyzer.

**WARNING**

**RISK OF ELECTRICAL SHOCK**

Electrical installation must be in accordance with the National Electrical Code (ANSI/NFPA-70) and/or any other applicable national or local codes.

CAUTION: This symbol identifies a risk of electrical shock.

CAUTION: This symbol identifies a potential hazard. When this symbol appears, consult the manual for appropriate action.

4. When the analyzer is powered up for the first time, Time/Date and Quick Start screens appear. Quick Start operating tips are as follows:
   a. Window screens will appear. The field with the focus will appear with dark blue backlighting. The field with focus can be edited by press ENTER/MENU.
   b. The Time and Date screen to set the real-time clock will appear. Accept the displayed time by pressing ENTER on Time and date OK or press the down key to Change the time and date.
   c. The first Quick Start screen appears. Choose the desired language by pressing ENTER/MENU to edit the active field and scrolling to the language of choice. Press ENTER/MENU and press the down arrow to highlight NEXT.
   d. The Navigation Rules for operating the keypad will be displayed.
   e. Choose the measurement for Sensor 1 (and Sensor 2) and proceed to the remaining Quick Start steps.
   f. Keypad operation guidelines will appear to guide the user how operate the user interface.
   g. NOTE: To edit a field with backlit focus, press ENTER/MENU. To scroll up or down, use the keys to above or below the ENTER key. To move the cursor left or right, use the keys to the left or right of the ENTER key. To edit a numeric value including decimal points, use the alphanumeric keypad then press ENTER.
   h. NOTE: Press ENTER to store a setting or value. Press EXIT to leave without storing changes. Pressing EXIT during Quick Start returns the display to the initial start-up screen (select language). To proceed to the next Quick Start step, use the right key or the down key to highlight NEXT. Press ENTER.

5. After the last step, the main display appears. The current outputs are assigned to default values before probes are wired to the analyzer. After the last step, the main display appears. The outputs are assigned to default values.
6. To change output, and all settings, press ENTER/MENU from the live screen. Using the down and right arrow keys, select one of the following menus and navigate the screen of choice.
7. To return the analyzer to the default settings, choose Reset under the Menu selection screen.
Specifications

Case: Polycarbonate. Type 4X, IP66. To ensure a water-tight seal, tighten all front panel screws to 6 in-lbs of torque.

Dimensions: 6.2 x 6.2 x 5.2 in. (157 x 157 x 132mm)

Conduit openings: Accepts (6) PG 13.5 or 1/2 in. conduit fittings

Display: Large 3.75 x 2.2 in. (95.3 x 55.9mm) high resolution color LCD displays large process variables and user-definable display of diagnostic parameters. Calibration, programming and information screens display clear, easy-to-read characters. The color display is back-lit and backlighting intensity is user adjustable. Measurement character height: (.5") 13mm. Main display can be customized to meet user requirements.

Ambient temperature and humidity: -10 to 60°C, (14 to 140°F) RH 5 to 95% (non-condensing). For Turbidity only: 0 to 55°C (32 to 131°F), RH 5 to 95% (non-condensing).

Note: Some degradation in display response or performance may occur below -5°C (23°F) and above 55°C (131°F). Above 60°C, the following components will progressively and automatically shut down: display, USB communications port, current outputs, alarm relays, main circuit board.

WARNING: Always remove USB memory device if ambient temp exceeds 60°C. Do not access USB port if combustible atmosphere is present.

Storage temperature: -20 to 60°C, (-4 to 140°F)

Power: Code -02: 20 to 30 VDC. 20 W
Code –03: 85 to 264 VAC, 47.5 to 65.0 Hz, 20 W

Real time clock back-up: 24 hours.

56 Hazardous Location Approvals:

Options for CSA: -02, 03, 20, 21, 22, 24, 25, 26, 27, 30, 31, 32, 34, 35, 36, 37, 38, HT and DP.

Class I, Division 2, Groups A, B, C, & D
Class II, Division 2, Groups E, F, & G
Class III T4A
Tamb= 50°C
Enclosure Type 4X

See Non-Incendive Field Wiring drawing 1400668. Evaluated to the ANSI/UL Standards. The ‘C’ and ‘US’ indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S. respectively.

Note: Single-input Turbidity configurations (models 56-02-27-38 or -HT, 56-03-27-38 or -HT) and dual-input Turbidity only configurations (56-02-27-37 or -HT, 56-03-27-37 -HT) are CSA approved class I Div. 2 for hazardous area installation.

Options for FM: -02, 03, 20, 21, 22, 23, 24, 25, 26, 27, 30, 31, 32, 33, 34, 35, 36, 37, 38, HT and DP.

Class I, Division 2, Groups A, B, C, & D
Class II & III, Division 2, Groups E, F, & G
T4A Tamb= 50°C
IP66

See Non-Incendive Field Wiring drawing 1400667.

Note: Single-input Turbidity configurations (models 56-02-27-38 or -HT, 56-03-27-38 or -HT) and dual-input Turbidity only configurations (56-02-27-37 or -HT, 56-03-27-37 -HT) are CSA approved class I Div. 2 for hazardous area installation.

Ordinary Locations (only with -UL ordering option):

Options for UL: -02, 03, 20, 21, 22, 24, 25, 26, 27, 30, 31, 32, 34, 35, 36, 37, 38, HT and DP.

Pollution Degree 2: Normally only non-conductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation must be expected.

RFI/EMI: EN61326-1:2001
LVD: EN-61010-1:2001

Input: One or two isolated sensor inputs. Measurement choices of pH/ORP, resistivity/conductivity/TDS, % concentration, ratio conductivity, total and free chlorine, monochloramine, dissolved oxygen, dissolved ozone, turbidity, pulse flow, temperature and raw 4-20mA input. For contacting conductivity measurements, temperature element must be a Pt1000 RTD. For other measurements (except ORP, flow and turbidity), use either a PT100 RTD, PT1000 RTD, or 22k NTC (D.O. only).

Outputs: Four actively powered 4-20mA or 0-20mA isolated current outputs. Fully scalable. Max Load: 550 Ohms. Outputs can be programmed for PID control. Output dampening can be enabled with time constants from 0 to 999 seconds. HART digital communications which is superimposed on output 1 is standard on all units (option code –HT).

Alarms: Four alarm relays for process measurement(s) or temperature. Any relay can be programmed for any measurement, timer, TPC or fault alarm operation, instead of a process alarm. When selected, a fault alarm will activate the relay when a sensor or analyzer fault occurs. Each relay can be configured independently. Alarm logic (high or low activation or USP*) and deadband are user-programmable.

*USP alarm can be programmed to activate when the conductivity is within a user-selectable percentage of the limit. conductivity/resistivity measurement only

Relays: Form C, SPDT, epoxy sealed

Maximum Relay Current

<table>
<thead>
<tr>
<th>Power</th>
<th>Resistive</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 VDC 5.0 A</td>
<td>5.0 A</td>
</tr>
<tr>
<td>115 VAC 5.0 A</td>
<td>5.0 A</td>
</tr>
<tr>
<td>230 VAC 5.0 A</td>
<td>5.0 A</td>
</tr>
</tbody>
</table>

Inductive load: 1/8 HP motor (max.), 115/240 VAC

Terminal Connections Rating:

Power connector (-02 24VDC power supply and -03 85-264VAC power supply): 24-12 AWG wire size.

Signal board terminal blocks: 26-16 AWG wire size.

Current output connectors: 26-16 AWG wire size.

Alarm relay terminal blocks: 24-12 AWG wire size.

Weight/Shipping Weight: (rounded up to nearest lb or nearest 0.5 kg): 3 lbs/4 lbs (1.5 kg/2.0 kg)
Installation

Unpacking and Inspection
Inspect the shipping container. If it is damaged, contact the shipper immediately for instructions. Save the box. If there is no apparent damage, unpack the container. Be sure all items shown on the packing list are present. If items are missing, notify Rosemount Analytical immediately.

General Information
1. Although the analyzer is suitable for outdoor use, do not install it in direct sunlight or in areas of extreme temperatures.
2. Install the analyzer in an area where vibration and electromagnetic and radio frequency interference are minimized or absent.
3. Keep the analyzer and sensor wiring at least one foot from high voltage conductors. Be sure there is easy access to the analyzer.
4. The analyzer is suitable for panel, pipe, or surface mounting.

WARNING

RISK OF ELECTRICAL SHOCK
Electrical installation must be in accordance with the National Electrical Code (ANSI/NFPA-70) and/or any other applicable national or local codes.

CAUTION: This symbol identifies a risk of electrical shock.
CAUTION: This symbol identifies a potential hazard. When this symbol appears, consult the manual for appropriate action.
Figure 2. 56 Panel Mounting Installation dimensions

PANEL MOUNT

FRONT VIEW

SIDE VIEW

BOTTOM VIEW

CONDUIT OPENINGS

4X Ø .86 21.8

PANEL MOUNT GASKET

PANEL SUPPLIED BY OTHERS MAXIMUM THICKNESS .375 IN (9.52 mm)

4X MOUNTING BRACKETS AND SCREWS PROVIDED WITH INSTRUMENT

PANEL CUT-OUT
Figure 3. 56 Pipe and Wall/Surface Mounting Installation dimensions

**WALL / SURFACE MOUNT**

**PIECE MOUNT**

shown with Mounting Kit PN 23820-00
Figure 4. FM Non-incendive field wiring installation for the 56-27-37 Analyzer.

1. INSTALLATION MUST CONFORM TO THE NEC.
2. GROUND CONNECTION MAY BE MADE IN HAZARDOUS AREA.
3. MAX. CABLE LENGTH IS 50 FEET.
4. DURING INSTALLATION, LEAVE HARMONIC AMOUNT OF JACKET INSULATION PROPERLY GROUND."
Figure 5. CSA Non-incendive field wiring installation.

Non-incendive field wiring methods may be used for connecting sensor to the turbidity, amperometric, pH and contacting conductivity sensor boards, attached to the non-incendive field wiring method. Conducting conductive or amperometric sensors must be CSA approved as non-incendive for class I, division 2, groups A, B, C, and D, and must be listed in Tables 1A to 1C and 2A to 2C. A sensor and inter-connected wiring must be listed in Tables 1A to 1C or classified as non-incendive. Simple apparatus are devices which are incapable of generating or storing more than 1.2 V or 1 A, 25 W or 20 J (between simple apparatus and amperometric sensors without preamps and contacting conductivity sensors quality as simple apparatus).

Max cable length is 50 feet.

During installation, leave maximum amount of jacket insulation possible on all field wiring within instrument enclosure. After termination, wrap all field wiring within enclosure with Mylar tape to ensure adequate double insulation remains.

Ground connection may be made in hazardous area.

2. Seal required at each conduit entrance.

1. Installation must conform to the NEC.

Notes: Unless otherwise specified.

UNCLASSIFIED AREA
Figure 6. CSA Non-incendive field wiring installation.

Table 1A: Amperometric Entity Parameters

<table>
<thead>
<tr>
<th>Output Parameters</th>
<th>Amperometric Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>V&lt;sub&gt;oc&lt;/sub&gt;, V&lt;sub&gt;a&lt;/sub&gt;</td>
<td>9.624 V</td>
</tr>
<tr>
<td>I&lt;sub&gt;sc&lt;/sub&gt;, I&lt;sub&gt;a&lt;/sub&gt;</td>
<td>104.07 mA</td>
</tr>
<tr>
<td>P&lt;sub&gt;max&lt;/sub&gt;, P&lt;sub&gt;o&lt;/sub&gt;</td>
<td>250.4 mW</td>
</tr>
<tr>
<td>Ca</td>
<td>26 μF</td>
</tr>
<tr>
<td>La</td>
<td>7.3 mH</td>
</tr>
</tbody>
</table>

Table 1B: pH/Orp/Pt Entity Parameters

<table>
<thead>
<tr>
<th>Output Parameters</th>
<th>pH T&lt;sub&gt;1&lt;/sub&gt; Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>V&lt;sub&gt;oc&lt;/sub&gt;, V&lt;sub&gt;a&lt;/sub&gt;</td>
<td>9.624 V</td>
</tr>
<tr>
<td>I&lt;sub&gt;sc&lt;/sub&gt;, I&lt;sub&gt;a&lt;/sub&gt;</td>
<td>115 mA</td>
</tr>
<tr>
<td>P&lt;sub&gt;max&lt;/sub&gt;, P&lt;sub&gt;o&lt;/sub&gt;</td>
<td>276.8 mW</td>
</tr>
<tr>
<td>Ca</td>
<td>26 μF</td>
</tr>
<tr>
<td>La</td>
<td>8 mH</td>
</tr>
</tbody>
</table>

Table 1C: Conductivity Entity Parameters

<table>
<thead>
<tr>
<th>Output Parameters</th>
<th>Conductivity Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>V&lt;sub&gt;oc&lt;/sub&gt;, V&lt;sub&gt;a&lt;/sub&gt;</td>
<td>6.633 V</td>
</tr>
<tr>
<td>I&lt;sub&gt;sc&lt;/sub&gt;, I&lt;sub&gt;a&lt;/sub&gt;</td>
<td>30.45 mA</td>
</tr>
<tr>
<td>P&lt;sub&gt;max&lt;/sub&gt;, P&lt;sub&gt;o&lt;/sub&gt;</td>
<td>50.5 mW</td>
</tr>
<tr>
<td>Ca</td>
<td>350 μF</td>
</tr>
<tr>
<td>La</td>
<td>85 mH</td>
</tr>
</tbody>
</table>

Table 1D: Turbidity Entity Parameters

May only be used with a Clarity II Turbidity Sensor.

Non-incendive Field Wiring Connections for Class 1, Division 2, Groups A B C D
Wiring

The 56 is easy to wire. It includes removable connectors and slide-out signal input boards. The front panel is hinged at the bottom. The panel swings down for easy access to the wiring locations.

Removable connectors and signal input boards

The 56 uses removable signal input boards and communication boards for ease of wiring and installation. Each of the signal input boards can be partially or completely removed from the enclosure for wiring. The 56 has three slots for placement of up to two signal input boards and one communication board.

<table>
<thead>
<tr>
<th>Slot 1-Left</th>
<th>Slot 2 – Center</th>
<th>Slot 3 – Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profi DP board</td>
<td>Input Board 1</td>
<td>Input Board 2</td>
</tr>
</tbody>
</table>

Signal Input boards

Slots 2 and 3 are for signal input measurement boards. Wire the sensor leads to the measurement board following the lead locations marked on the board. After wiring the sensor leads to the signal board, carefully slide the wired board fully into the enclosure slot and take up the excess sensor cable through the cable gland. Tighten the cable gland nut to secure the cable and ensure a sealed enclosure.

Alarm relays

Four alarm relays are supplied with the switching power supply (85 to 264VAC, -03 order code) and the 24VDC power supply (20-30VDC, -02 order code). All relays can be used for process measurement(s) or temperature. Any relay can be configured as a fault alarm instead of a process alarm. Each relay can be configured independently and each can be programmed as an interval timer, typically used to activate pumps or control valves. As process alarms, alarm logic (high or low activation or USP*) and deadband are user-programmable. Customer-defined failsafe operation is supported as a programmable menu function to allow all relays to be energized or not-energized as a default condition upon powering the analyzer. The USP* alarm can be programmed to activate when the conductivity is within a user-selectable percentage of the limit. USP alarming is available only when a contacting conductivity measurement board is installed.

Preparing Conduit Openings

There are six conduit openings in all configurations of the 56. (Note that four plugs are provided upon shipment.)

Conduit openings accept 1/2-inch conduit fittings or PG13.5 cable glands. To keep the case watertight, block unused openings with Type 4X or IP66 conduit plugs.

Digital Communication boards

HART digital communications is standard on 56. A Profibus DP communication board is available as options for 56 communication with a host. HART communications supports Bell 202 digital communications over an analog 4-20mA current output. Profibus DP is an open communications protocol which operates over a dedicated digital line to the host.

NOTE: Use watertight fittings and hubs that comply with your requirements. Connect the conduit hub to the conduit before attaching the fitting to the analyzer.
Preparing Sensor Cable

The 56 is intended for use with all Rosemount Analytical sensors. Refer to the sensor installation instructions for details on preparing sensor cables.

Power, Output, and Sensor Connections

Power wiring

Two Power Supplies are offered for the 56:

- a. 24VDC (20 – 30V) Power Supply
  (-02 ordering code)
- b. 85 – 264 VAC Switching Power Supply
  (-03 ordering code)

AC mains leads and 24VDC leads are wired to the Power Supply board which is mounted vertically on the left side of the main enclosure cavity. Each lead location is clearly marked on the Power Supply board. Wire the power leads to the Power Supply board using the lead markings on the removeable connector.

The grounding plate is connected to the earth terminal of the -03 (85-264VAC) power supply. The green colored screws on the grounding plate are intended for connection to some sensors to minimize radio frequency interference. The green screws are not intended to be used for safety purposes.

Current Output wiring

All instruments are shipped with four 4-20mA current outputs. Wiring locations for the outputs are on the main board which is mounted on the hinged door of the instrument. Wire the output leads to the correct position on the main board using the lead markings (+/positive, -/negative) on the board. Male mating connectors are provided with each unit.

Alarm relay wiring

Four alarm relays are supplied with the switching power supply (85 to 264VAC, -03 order code) and the 24VDC power supply (20-30VDC, -02 order code). Wire the relay leads on each of the independent relays to the correct position on the power supply board using the printed lead markings NO (Normally Open), NC (Normally Closed), or Com (Common) on the board.

Sensor wiring to signal boards

Wire the correct sensor leads to the measurement board using the lead locations marked directly on the signal board. After wiring the sensor leads to the signal board, carefully slide the wired board fully into the enclosure slot and take up the excess sensor cable through the cable gland.

For best EMI/RFI protection use shielded output signal cable enclosed in an earth-grounded metal conduit. Connect the shield to earth ground. AC wiring should be 14 gauge or greater. Provide a switch or breaker to disconnect the analyzer from the main power supply. Install the switch or breaker near the analyzer and label it as the disconnecting device for the analyzer.

Keep sensor and output signal wiring separate from power wiring. Do not run sensor and power wiring in the same conduit or close together in a cable tray.

WARNING

RISK OF ELECTRICAL SHOCK

Electrical installation must be in accordance with the National Electrical Code (ANSI/NFPA-70) and/or any other applicable national or local codes.

CAUTION: This symbol identifies a risk of electrical shock.

CAUTION: This symbol identifies a potential hazard. When this symbol appears, consult the manual for appropriate action.
Return of Material

To expedite the repair and return of instruments, proper communication between the customer and the factory is important. Before returning a product for repair, call 1-949-757-8500 for a Return Materials Authorization (RMA) number.

Warranty Repair

The following is the procedure for returning instruments still under warranty:

1. Call Rosemount Analytical for authorization.
2. To verify warranty, supply the factory sales order number or the original purchase order number. In the case of individual parts or sub-assemblies, the serial number on the unit must be supplied.
3. Carefully package the materials and enclose your “Letter of Transmittal” (see Warranty). If possible, pack the materials in the same manner as they were received.
4. Send the package prepaid to:

   Rosemount Analytical
   2400 Barranca Parkway
   Irvine, CA 92606
   Attn: Factory Repair
   RMA No. ____________
   Mark the package: Returned for Repair
   Model No. _____

Non-Warranty Repair

The following is the procedure for returning for repair instruments that are no longer under warranty:

1. Call Rosemount Analytical for authorization.
2. Supply the purchase order number, and make sure to provide the name and telephone number of the individual to be contacted should additional information be needed.
3. Do Steps 3 and 4, above.

NOTE: Consult the factory for additional information regarding service or repair.

IMPORTANT: Please see second section of “Return of Materials Request” form. Compliance with the OSHA requirements is mandatory for the safety of all personnel. MSDS forms and a certification that the instruments have been disinfected or detoxified are required.
EC Declaration of Conformity

Schedule
EC Declaration of Conformity

Model 56-0X-2Y-3Y-Z Advanced Dual Input Analyzer;

EN 61326-1: 2006
EN 61000-3-2: 1995
EN 61000-3-3: 1995

Low Voltage Directive (2006/95/EC)
Model 56-0X-2Y-3Y-Z Advanced Dual Input Analyzer;

EN 61010-1:2001

CE marking was first affixed to this product in 2010
EC Declaration of Conformity

We,

Emerson Process Management
Blegistrasse 21
Barr, Switzerland CH 6341

Declare under our sole responsibility that the product,

Model 56-0X-2Y-3Y-Z Advanced Dual Input Analyzer;

Where X is: 2 24VDC Power Supply
3 85-265VAC Switching Power Supply

Where Y is: 0 Conductivity
1 Total Conductivity
2 pH/ORP
3 Flow/Current Input
4 Chlorine
5 Dissolved Oxygen
6 Oxygen
7 Turbidity
8 None

Where Z is: HT HART communications
DP Profinet communications

manufactured by,

Emerson Process Management
Rosemount Analytical
2400 Barranca Parkway
Irvine, California 92606
USA

to which this declaration relates, is in conformity with the provisions of the European community Directives, including the latest amendments, as shown in the attached schedule.

Assumption of conformity is based on the application of the harmonized standards and, when applicable or required, a European Community notified body certification, as shown in the attached schedule.

[Signature]
Andy Kemish
(name printed)

Vice President Analytical Europe
(function name printed)
November 29, 2010
(date of issue)
Credit Cards for U.S. Purchases Only.

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Irvine, CA 92606 USA
Tel: (949) 757-8500
Fax: (949) 474-7250
rosemountanalytical.com

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