

BIDFORM FOR THE PUBLIC BIDDING OF:
 DATE OF PRE-BID CONFERENCE:
 DEADLINE OF SUBMISSION OF BIDS:

UPLB-S-056-8-17 SUPPLY AND DELIVERY OF ENGINEERING AND LABORATORY TESTING EQUIPMENT OF BIOMECH

Wednesday, 19 July, 2017 2:30 PM

Wednesday, 02 August, 2017 1:45 PM

BIOMECH, PR# 8218, 8229

RCC: 9151032, 536-8745

LOT #	ITEM #	REQUIRED SECIFICATIONS	OFFERED SPECIFICATIONS (write down detailed offered specifications)	REFERENCES (include supporting documents)	COMMENTS/ REMARKS (clarify inclusion/ exclusion)	EVALUATION
1	1	<p>Data Acquisition Equipment, Brand New and Branded</p> <p>Components: one compact digital acquisition four-slot chassis, one module analog input, one module analog output and one module thermocouple input; including drivers for the modules</p> <p>Software compatibility: LabVIEW Suite; LabVIEW 2011; and Windows 8.1 and 10</p> <p>[Component 1] Compact Digital Acquisition Four-Slot USB Chassis</p> <p>Analog Input</p> <p>Input FIFO: 127 samples per slot</p> <p>Maximum sample rate: Determined by the I/O module or modules</p> <p>Timing accuracy: 50 ppm of sample rate</p> <p>Timing resolution: 12.5 ns</p> <p>Number of channels supported: Determined by the I/O module or modules</p> <p>Analog Output</p> <p>Number of channels supported</p> <p>Hardware-timed task</p> <p>Onboard regeneration: 16</p> <p>Non-regeneration: Determined by the I/O module or modules</p> <p>Non-hardware-timed task: Determined by the I/O module or modules</p> <p>Maximum update rate</p> <p>On-board regeneration: 1.6 MS/s (multi-channel, aggregate)</p> <p>Non-regeneration: Determined by the I/O module or modules</p> <p>Timing accuracy: 50 ppm of sample rate</p> <p>Timing resolution: 12.5 ns</p> <p>Output FIFO size</p>				

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		Onboard regeneration: 8,191 samples shared among channels used Non-regeneration: 127 samples per slot AO waveform modes: Non-periodic waveform, periodic waveform regeneration mode from onboard memory, periodic waveform regeneration from host buffer including dynamic update Digital Waveform Characteristics Waveform acquisition (DI) FIFO: 127 samples per slot Waveform generation (DO) FIFO: 2,047 samples Digital input sample clock frequency Streaming to application: System-dependent memory Finite: 0 to 10 MHz Digital output sample clock frequency Streaming from application: System-dependent Regeneration from FIFO: 0 to 10 MHz Finite: 1 to 10 MHz Timing accuracy: 50 ppm General-Purpose Counters/Timers Numbers of counters/timers: 4 Resolution: 32 bits Counter measurements: Edge counting, pulse, semi-period, period, two-edge separation, pulse width Position measurements:: X1, X2, X4 quadrature encoding with Channel Z reloading: two pulse encoding Output applications: Pulse, pulse train with dynamic updates, frequency division, equivalent Internal base clocks: 80 MHz, 20 MHz, 100 kHz				

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		<p>External base clock frequency: 0 to 20 MHz</p> <p>Base clock accuracy: 50 ppm</p> <p>Output frequency: 0 to 20 MHz</p> <p>Inputs: Gate, Source, HW-Arm, Aux, A, B, Z, Up-Down</p> <p>Routing options for inputs: Any module PFI, analog trigger, many internal signals</p> <p>FIFO: Dedicated 127-sample FIFO</p> <p>Frequency Generator</p> <p>Number of channels: 1</p> <p>Base clocks: 20 MHz, 10 MHz, 100 kHz</p> <p>Divisors: 1 to 16 triggers</p> <p>Base clock accuracy: 50 ppm</p> <p>Output: Any module PFI terminal</p> <p>Power Requirement: Adapted for 220VAC</p> <p>Module PFI characteristics</p> <p>Functionality: Static digital input, static digital output, timing input, and timing output</p> <p>Timing output sources: many analog input; analog output, counter, digital input, and digital output timing signals</p> <p>Timing input frequency: 0 to 20 MHz</p> <p>Timing output frequency: 0 to 20 MHz</p> <p>Digital Triggers</p> <p>Source: any module PFI terminal</p> <p>Polarity: software-selectable for most signals</p> <p>Analog input function: Start Trigger, reference Trigger, pause Trigger, sample Clock, sample Clock Time base</p> <p>Counter/timer function: Gate, Source, HW_Arm, Aux, A, B, Z, Up_Down</p> <p>Module I/O States</p> <p>At power on: Module-dependent</p> <p>Power Requirements</p> <p>Input voltage range: 9 to 30 V</p> <p>Maximum required input power: 15 W</p>				

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		Power input connector: 2 positions 3.5 mm pluggable screw terminal with screw locks similar to Sauro CTMH020F8-0N001 Power input mating connector: Sauro CTf020V8, Phoenix Contact 1714977 or equivalent Power consumption from USB: 500 µA maximum Bus Interface USB specification: USB 2.0 Hi-Speed High performance data streams: 7 Data stream types available: Analog input, analog output, digital input, digital output, counter/timer input, digital output, counter/timer input, counter/timer output Environmental Operating temperature: -20 to 55°C (IEC-60068-2-1 and IEC-60068-2-2) Storage temperature: -40°C to 85°C (IEC-60068-2-1 and IEC-60068-2-2) Ingress Protection: IP 30 Operating humidity: 10 to 90% RH, non-condensing (IEC-60068-2-56) Storage humidity: 5 to 95% RH, non-condensing (IEC-60068-2-56) Pollution degree (IEC 60664): 2 Maximum altitude: 5000 m Safety The product meets the following standards of safety for electrical equipment for measurement, control and laboratory use: IEC 61010-1, EN 61010-1; UL 61010-1, CSA 61010-1 Electromagnetic Compatibility				

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		<p>The product meets the following EMC standards of for electrical equipment for measurement, control and laboratory use: EN 61326-1 (IEC 61326-1), class A emissions, Basic immunity; EN 55011 (CISPR 11) Group 1, Class A emissions; AS/NZS CISPR 11, Group I, Class A emissions; FCC 47 CFR part 15B, Class A emissions; ICES-001, Class A emissions</p> <p>CE Compliance</p> <p>The product meets the essential requirements of applicable European directives as follows: 2006/95/EC, Low Voltage Directive (safety); 2004/108/EC, Electromagnetic Compatibility Directive (EMC)</p> <hr/> <p>[Component 2] Analog Input Module</p> <p>Input Characteristics</p> <p>Type of terminal/connectivity: screw terminal Number of channels: 4 analog input channels, differential Sample rate: 100 kS/s/ch, simultaneous ADC resolution: 16 bits Type of ADC: Successive approximation register (SAR) Input range: ± 10.0V Input Voltage Ranges: Measurement Voltage, AI+ to AI- Minimum (V): ± 10.2 Typical (V): ±10.4 Maximum (V): ± 10.6 Maximum Voltage (Signal + Common Mode): ± 10.2 V of common for screw terminal Overvoltage protection: ±30V Conversion time: Channel 0 only: 4.4 µs</p>				

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		Channels 0 and 1: 6 μ s				
		Channels 0, 1 and 2: 8 μ s				
		Channels 0, 1, 2 and 3: 10 μ s				
		Accuracy				
		Calibrated, Maximum (-40°C to 70°C): 0.2 percent of reading/gain error; 0.082 percent of range/offset error				
		Calibrated, Typical (23°C \pm 5°C): 0.02 percent of reading/gain error; 0.014 percent of range/offset error				
		Uncalibrated, Maximum (-40°C to 70°C): 1.05 percent of reading/gain error; 0.82 percent of range/offset error				
		Uncalibrated, Typical (23°C \pm 5°C): 0.6 percent of reading/gain error; 0.38 percent of range/offset error				
		Stability, gain drift: 10 ppm/°C				
		Stability, offset drift: 60 μ V/°C				
		CMRR (f_{in} = 60 Hz): 73 dB min				
		Input bandwidth (-3 dB): 420 kHz minimum				
		Input impedance, resistance with screw terminal (AI-to-COM): 1 G Ω				
		Input bias current: 10 nA				
		Input noise: 1.2 LSB _{rms} (RMS); 7 LSB (Peak-to-peak)				
		Crosstalk: -80 dB				
		Settling time (to 2 LSBs), with screw terminal, 10 V step: 10 μ s				
		Settling time (to 2 LSBs), with screw terminal, 20 V step: 15 μ s				
		No missing codes: 15 bits guaranteed				
		DNL: -1.9 to 2 LSB				
		INL: \pm LSB maximum				
		MTBF: 1,167,174 hours at 25°C; Bellcore Issue 6, Method 1, Case 3, Limited Part Stress Method				

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		<p>Traceability of calibration: NIST traceable</p> <p>Power Requirements Power consumption from chassis: Active mode 560 mW maximum; Sleep mode 25 µW maximum</p> <p>Thermal dissipation at 70°C: Active mode 560 mW maximum; Sleep mode 25 µW maximum</p> <p>Physical Characteristics Screw terminal wiring: 0.2mm² to 2.5 mm² (26 to 14 AWG) copper conductor wire with 13 mm of insulation stripped from the end Ferrules: 0.25 mm² to 2.5 mm² Weight: 150 g</p> <p>Safety The product meets the following standards of safety for electrical equipment for measurement, control and laboratory use: IEC 61010-1, EN 61010-1; UL 61010-1, CSA 61010-1; EN 60079-0:2012, EN 60079-15:2010; IEC 60079-0:Ed 6, IEC 60079-15:Ed 4; UL 60079-0:ed 5; UL 60079-15:Ed 3; CSA 60079-0:2011, CSA 60079-15:2012</p> <p>Electromagnetic Compatibility The product meets the following EMC standards of for electrical equipment for measurement, control and laboratory use: EN 61326-1 (IEC 61326-1), class A emissions, Industrial immunity; EN 55011 (CISPR 11) Group 1, Class A emissions; AS/NZS CISPR 11, Group I, Class A emissions; FCC 47 CFR part 15B, Class A emissions; ICES-001, Class A emissions</p> <p>CE Compliance</p>				

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		<p>The product meets the essential requirements of applicable European directives as follows: 2014/35/EU, Low Voltage Directive (safety); 2014/30/EU, Electromagnetic Compatibility Directive (EMC); 94/9/EC, Potentially Explosive Atmospheres (ATEX)</p> <p>Environmental</p> <p>Operating temperature: -40 to 70°C (IEC-60068-2-1 and IEC-60068-2-2)</p> <p>Storage temperature; -40°C to 85°C (IEC-60068-2-1 and IEC-60068-2-2)</p> <p>Ingress Protection: IP 40</p> <p>Operating humidity: 10 to 90% RH, non-condensing (IEC-60068-2-78)</p> <p>Storage humidity: 5 to 95% RH, non-condensing (IEC-60068-2-78)</p> <p>Pollution degree (IEC 60664): 2</p> <p>Maximum altitude: 2000 m</p> <p>[Component 3] Analog Output Module</p> <p>Output Characteristics</p> <p>Number of channels: 4 analog output channels</p> <p>Sample rate: 100 kS/s/ch, simultaneous</p> <p>DAC resolution: 16 bits</p> <p>Type of DAC: String</p> <p>Power-on output state: Channels off</p> <p>Startup/Power down voltage: 0 V</p> <p>Output voltage range: ±10V (nominal), ±10.3V (minimum), ±10.7V (typical), ±11V (maximum)</p> <p>Current drive: ±1 mA per channel max</p> <p>Output impedance: 0.1Ω</p> <p>Accuracy</p>				

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		<p>Calibrated, Maximum (-40 to 70°C): 0.35 percent of reading/gain error; 0.75 percent of range/offset error</p> <p>Calibrated, Typical (25°C, ±5°C): 0.01 percent of reading/gain error; 0.1 percent of range/offset error</p> <p>Uncalibrated, Maximum (-40°C to 70°C): 2.2 percent of reading/gain error; 1.7 percent of range/offset error</p> <p>Uncalibrated, Typical (25°C, ±5°C): 0.3 percent of reading/gain error; 0.25 percent of range/offset error</p> <p>Stability: 6 ppm/°C gain drift; 80µV/°C offset drift</p> <p>Protection: ±30 overvoltage; indefinitely for short circuit</p> <p>Update time: 1 channel- 3µs, 2 channels - 5µs, 3 channels - 7.5 µs, 4 channels - 9.5 µs</p> <p>Noise: 260µV_{rms}</p> <p>Slew rate: 4 V/µs</p> <p>Crosstalk: 76 dB</p> <p>Settling time (10 OpF load, to 1 LSB): 20 µs (Full-scale step), 10 µs (3 V step), 8 µs (0.1 V step)</p> <p>Glitch energy (256 steps, worst case): 2 mV for 2 µs</p> <p>Capacitive drive: 1,500 pF min</p> <p>Monotonicity: 16 bits</p> <p>DNL: -1 to 2 LSBs max</p> <p>INL (endpoint): 16LSBs max</p> <p>MTBF: 1,732,619 hours at 25C; Bellcore Issue 2, Method 1, Case 3, Limited Part Stress Method</p> <p>Power Requirements</p> <p>Power consumption from chassis: 625 mW max (Active mode), 25 µW (Sleep mode)</p>				

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		<p>Thermal dissipation (70°C): 625 mW max (Active mode), 25 µW (Sleep mode)</p> <p>Physical Characteristics</p> <p>Screw terminal wiring: 12 to 24 AWG copper conductor wire 10 mm of insulation stripped from the end</p> <p>Ferrules: 0.25 mm² to 2.5 mm²</p> <p>Weight: 150 g</p> <p>Safety</p> <p>The product meets the following standards of safety for electrical equipment for measurement, control and laboratory use: IEC 61010-1, EN 61010-1; UL 61010-1, CSA 61010-1</p> <p>Electromagnetic Compatibility</p> <p>The product meets the following EMC standards of for electrical equipment for measurement, control and laboratory use: EN 61326-1 (IEC 61326-1), class A emissions, Industrial immunity; EN 55011 (CISPR 11) Group 1, Class A emissions; AS/NZS CISPR 11, Group I, Class A emissions; FCC 47 CFR part 15B, Class A emissions; ICES-001, Class A emissions</p> <p>CE Compliance</p> <p>The product meets the essential requirements of applicable European directives as follows: 2006/95/EC, Low Voltage Directive (safety); 2004/108/EC, Electromagnetic Compatibility Directive (EMC)</p>				

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		<p>Environmental</p> <p>Operating temperature: -40 to 70°C (IEC-60068-2-1 and IEC-60068-2-2)</p> <p>Storage temperature; -40°C to 85°C (IEC-60068-2-1 and IEC-60068-2-2)</p> <p>Ingress Protection: IP 40</p> <p>Operating humidity: 10 to 90% RH, non-condensing (IEC-60068-2-56)</p> <p>Storage humidity: 5 to 95% RH, non-condensing (IEC-60068-2-56)</p> <p>Pollution degree (IEC 60664): 2</p> <p>Maximum altitude: 2000 m</p> <p>[Component 4] Thermocouple module</p> <p>Input Characteristics</p> <p>Number of channels: 16 thermocouple channels, 1 internal auto zero channel, 1 internal cold-junction compensation channel</p> <p>ADC resolution: 24 bits</p> <p>Type of ADC: delta-Sigma</p> <p>Sampling mode: scanned</p> <p>Voltage measurement range: ±78.125 mV</p> <p>Temperature measurement ranges; works over temperature ranges defined by Nist (J, K, T, E, N, B, R, S thermocouple types)</p> <p>Timing modes and sample rates (all channels): High-resolution (1 S/s); High-speed (75 S/s); sample rate may be faster if fewer than all channels are used</p> <p>Common-mode voltage range: ±1.2V minimum (Channel-to-COM); ±250V (COM-to-earth ground)</p> <p>Common mode rejection ratio, High resolution mode (at DC and 50 Hz to 60 Hz); 100 dB (Channel-to-COM); >170 dB (COM-to-earth ground)</p>				

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		<p>Common mode rejection ratio, High-speed mode (at 0 Hz to 60 Hz): 70 dB (Channel-to-COM); >150dB (COM-to-earth ground)</p> <p>Input bandwidth: 14.4 Hz (high-resolution mode); 78 Hz (high-speed mode)</p> <p>High-resolution noise rejection (at 50 Hz and 60 hz): 60 dB</p> <p>Overvoltage protection: ± 30 V between ant two inputs</p> <p>Differential input impedance: 78MΩ</p> <p>Input current: 50nA</p> <p>Input noise; 200 n Vrms (high-resolution mode); 7 μV_{rms} (high-speed mode)</p> <p>Gain error, high-resolution mode: 0.03% typical (at 25°C); 0.07% typical and 0.15% maximum (at -40°C to 70°C)</p> <p>Gain error, high-speed mode: 0.08% typical and 0.16% maximum (-40°C to 70°C)</p> <p>Offset error, high-resolution mode: 4 μV typical, 6 μV maximum</p> <p>Offset error, high-speed mode: 14 μV typical, 17 μV maximum</p> <p>Offset error from source impedance: add 0.05 μV per Ω, when source impedance >50Ω</p> <p>Cold-junction compensation accuracy: 0.8 °C typical, 1.7 °C maximum (0 °C to 70 °C); 1.1 °C typical, 2.1 °C maximum (-40 °C to 70 °C)</p> <p>MTBF: 852,407 hours at 25 °C; Bellcore Issue 2, Method 1, Case 3, Limited Part Stress Method</p> <p>Temperature Measurement Accuracy</p> <p>High-resolution mode: <0.02 °C (types J, K, T, E, N); <0.15 °C (types B, R, S)</p>				

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		<p>High-speed mode: <0.25 °C (types J, K, T, E), <0.35 °C (type N), <1.2 °C (type B), <2.8 °C (types R, S)</p> <p>Power Requirements</p> <p>Power consumption from chassis: 490 mW maximum (active mode), 25 µW maximum (sleep)</p> <p>Thermal dissipation, at 70 °C: 840 mW maximum (active mode), 710 mW maximum (sleep mode)</p> <p>Physical Characteristics</p> <p>Spring type terminal wiring: 0.08 m² to 1.0 mm² (28 AWG to 18 AWG), 7 mm of insulation stripped from the end</p> <p>Wires per spring terminal: 1 wire</p> <p>Weight: 159 g</p> <p>Safety</p> <p>The product meets the following standards of safety for electrical equipment for measurement, control and laboratory use: IEC 61010-1, EN 61010-1; UL 61010-1, CSA 61010-1; EN 60079-0:2012, EN 60079-15:2010; IEC 60079-0:Ed 6, IEC 60079-15:Ed 4; UL 60079-0:ed 5; UL 60079-15:Ed 3; CSA 60079-0:2011, CSA 60079-15:2012</p> <p>Electromagnetic Compatibility</p> <p>The product meets the following EMC standards of for electrical equipment for measurement, control and laboratory use: EN 61326-1 (IEC 61326-1), class A emissions, Industrial immunity; EN 55011 (CISPR 11) Group 1, Class A emissions; AS/NZS CISPR 11, Group I, Class A emissions; FCC 47 CFR part 15B, Class A emissions; ICES-001, Class A emissions</p>				

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		<p>CE Compliance The product meets the essential requirements of applicable European directives as follows: 2014/35/EU, Low Voltage Directive (safety); 2014/30/EU, Electromagnetic Compatibility Directive (EMC); 94/9/EC, Potentially Explosive Atmospheres (ATEX)</p> <p>Environmental Operating temperature: -40 to 70°C (IEC-60068-2-1 and IEC-60068-2-2) Storage temperature; -40°C to 85°C (IEC-60068-2-1 and IEC-60068-2-2) Ingress Protection: IP 40 Operating humidity: 10 to 90% RH, non-condensing (IEC-60068-2-56) Storage humidity: 5 to 95% RH, non-condensing (IEC-60068-2-56) Pollution degree (IEC 60664): 2 Maximum altitude: 2000 m</p> <p>OTHER REQUIREMENTS: Manufacturer's brochures/data sheets to be submitted by bidder Availability of manufacturer's trained technician for after sales service. Warranty Period: 3 years on all parts and service Delivery Period: 60 calendar days upon receipt of Notice to Proceed</p>				
2	1	<p>Moisture Analyzer, Brand New and Branded Fully Automatic Infrared Moisture Analyzer for Daily Routine Operation Maximum weighing capacity: 70 g Repeatability, average: ±0.2% for initial sample weight approximately > 1 g; ±0.05% for initial sample weight approximately > 5 g;</p>				

BIDFORM FOR THE PUBLIC BIDDING OF:
 DATE OF PRE-BID CONFERENCE:
 DEADLINE OF SUBMISSION OF BIDS:

UPLB-S-056-8-17 SUPPLY AND DELIVERY OF ENGINEERING AND LABORATORY TESTING EQUIPMENT OF BIOMECH

Wednesday, 19 July, 2017 2:30 PM

Wednesday, 02 August, 2017 1:45 PM

BIOMECH, PR# 8218, 8229

RCC: 9151032, 536-8745

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		<p>Readability: 1 mg, 0.01%</p> <p>Typical sample quantity: 5 to 15 g</p> <p>Result display: Moisture content in %M and g; dry matter in %S and g; ATRO in %M/S</p> <p>Temperature range and settings: 40°C - 160°C; stand-by temperature selectable from 40 - 100°C in increments of 1°C</p> <p>Sample heating: Infrared metal heating elements</p> <p>Heating programs: Standard drying; gentle drying</p> <p>Shutoff parameter: Optional. Fully automatic; Semi-automatic mg (1 - 50 mg / 5 - 300 sec.); Semi-automatic % (0.1 - 5.0% / 5 - 300 sec.); Timer settings (02:00 - 99.59 min.; Manual)</p> <p>Access to sample chamber: Removable hood with wide opening angle, soft close mechanism</p> <p>Measuring program: 1 program saved in a non-volatile memory (freely selectable method parameters)</p> <p>Memory for data storage: Results are saved until the start of the next measurement</p> <p>Operator guidance features: Intuitive user interface, including touch screen and easy to understand menu guidance</p> <p>Language selection: includes English</p> <p>Status light: displays the status "analysis running/START", "analysis completed/STOP" or "analysis error"</p> <p>Sample inspection: LED-illuminated sample chamber, inspection window with grid above the hood</p> <p>Draft shield: integrated draft shield</p>				

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		<p>Cleaning: removable hood, inspection window with grid and sample chamber plate for easy cleaning in the dish washer</p> <p>Log printout: can be connected to an optional printer</p> <p>Monitoring of inspection and testing equipment: External calibration using optional calibration weights</p> <p>Data interface: Mini USB. Direct data transfer to Microsoft Windows programs without any additional software; Programmable data output interval; Data transfer protocols SBI, table format, text format</p> <p>Power supply: automatic voltage detection 115/230V; 60 hz</p> <p>Power consumption: Maximum 640 VA</p> <p>Temperature range: 10°C to 30°C</p> <p>Housing dimensions (W x D x H): 215 x 400 x 210 mm</p> <p>Weight: approx. 6.2 kg</p> <p>Includes power cord, user manual, aluminum sample pans and glass fiber filter</p> <p>Applications: The moisture analyzer can be used for quick and reliable determination of the moisture content of liquid, pasty and solid substances using the thermogravimetric method. Typical applications include the analysis of foods, beverages, pharmaceuticals, chemicals, paper materials and environmental protection products.</p>				

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		<p>Performance: The moisture analyzer monitors the drying process and stops the measurement once the sample weight is constant. The built-in weighing system with 1 mg resolution is specifically optimized for use in higher temperature ranges and delivers the required measurement accuracy. Two powerful metal tube heating elements heat the samples. These heating elements are fast, extremely rugged and durable. Compared to glass heating lamps, e. g. infrared lamps or halogen heaters, they are especially resistant to dirt and vibrations.</p> <p>Availability of manufacturer's trained technician for after sales service. Delivery Period: 60 calendar days upon receipt of Notice to Proceed Warranty: 1 year on all components</p>				

Note: Please fill-up applicable columns.

Signature of Representative: _____

Name of Representative: _____

End-user:

Position: _____

 Signature over Printed Name

Company: _____

Address: _____

Telephone/ Fax: _____

Email: _____