Department of Veterans Affairs

Memorandum

Date: August 9, 2012

From: Business Manager, Imaging Service, VA Pittsburgh Healthcare System

Subj: SALIENT CHARACTERISTICS / FUNCTIONAL / PERFORMANCE SPECIFICATIONS for SUPERMAX ELECTROMETER AND ELECTROMETER CALIBRATION EIGHT SCALES

To: Acquisitions / Contracting
Thru: Ricky M. Rogers, Business Resource Specialist

1. The following are the required characteristics, functional and performance specifications for the requested item.

Display Range
RATE: *Low Range* 0.001 pA – 500.0 pA, 1 fA resolution
High Range 0.001 nA – 500.0 nA, 1 pA resolution
charge: *Low Range* 0.001 pC – 999.9 µC, 1 fC resolution
High Range 0.001 nC – 999.9 µC, 1 pC resolution
charge collections
Trigger: Automatic start, stop, reset and save data based on user defined thresholds (*Start:* 0.2 – 9.9 pA; *Stop:* 0.1 – 9.8 pA)
timed: User set duration (*Range:* 1 – 600 seconds; *Increment:* 1 second)
Continuous: Unlimited duration with manual stop
Real Time Clock Date and time stamp for all measurements for easy identification
Internal Memory S tore preferences, >100 sources, >100 chamber/system factors
range switching User selectable — High or Low
REPEATABILITY ± 0.1% (IEC 60731 requirement: ± 0.5%)
LONG -TERM STABILITY ± 0.5% (over one year)
STABILIZATION TIME ± 0.1% (IEC 60731 requirement: ± 0.5% of value at 1 hr for measurements taken at 15 min and 6 hrs)
RESPONSE TIME < 2 s on high range (IEC 60731 requirement: < 3 s)
NON-LINEARITY ± 0.25% (IEC 60731 requirement: ± 1.0%)
Conformity 93/42/ EEC
Reference class according to IEC 60731
ZERO DRIFT ± 0.25% of minimum effective scale reading (low/high : < ± 0.001pA/< ± 0.001nA) (IEC 60731 requirement: ± 0.5%)
ZERO shIFT ± 0.25% of minimum effective scale reading (low/high : < ± 0.001pA/< ± 0.001nA) (IEC 60731 requirement: ± 0.5%)
display 6.4" color TFT, touchscreen
input (2) BNC two lug, triaxial connector
bias voltage Nominal ± 1000 volt bias
user settings: – 1000 to – 100, 0; 100 to 1000 (set in 1 volt increments)
accuracy: ± 0.3 volt
power 100-240 VAC, 0.5 A max, 50/60 Hz input to external

power supply, 9 VDC, 1.7 A power supply output to
electrometer input, UL/TUL listed power supply
zeroing Automatic zero function, user activated
output (2) USB ports
Dimensions *Height:* 8.1 cm, 3.2 in *Width:* 26.7 cm, 10.5 in
Length: 21.1 cm, 8.3 in *Weight:* 2.4 kg, 5.3 lbs
Options
SuperMAX Accessory Kit (REF 72245)
Includes extra stylus, extra USB flash drive, and set of 5 extra screen protectors
SuperMAX Electrometer with TNC connector (REF 90018-C)

Specifications subject to change without notice.

2. Equipment Transaction Number: 646-362-12-00024

3. Vista Transaction Number: 646-12-3-167-0151

4. If you have any questions please feel free to contact me 412-360-1093.

VERONICA GAMBLE
Business Manager

Firms with interest and capability to respond to this requirement should develop a short narrative including relevant experience and other information indicating and evidencing capability to successfully meet the aforementioned requirements. Interested parties should send their company information via E-mail (preferred) or fax to Mr. Pedro Catinchi, Contracting Officer, Service Area East Office. E-mail is pedro.catinchi@va.gov and fax number is 412-822-3440.

Company information must include business type e.g. Service Disabled Veteran Owned Business, Woman Owned Small Business, etc. Information should be provided no later than (12:00 PM) AUG 29, 2012.