

**May 24, 2018**

Notice to all Prospective Bidders:

**RE: WBPS PROCESS METERS, CONTROL #1289**

The Knoxville Utilities Board will be receiving bids for the referenced project on **May 30, 2018, at 2:00 P.M., EDT**, see attached bidding requirements.

**KUB's proposed schedule for this Project is as follows:**

- A. Issue documents on May 24, 2018.
- B. Bids due at 2:00PM, EDT, on May 30, 2018, at KUB Procurement, 4505 Middlebrook Pike, Knoxville, TN.
- C. Notice of Award and Purchase Order on or about May 31, 2018.
- D. FOB delivery to KUB Hoskins Operations Center, 4505 Middlebrook Pk., Knoxville, TN 37921.
- E. **Must be delivered and invoiced on or before June 22, 2018.**

All communications concerning this project shall be addressed to Shari Hurst, at **Shari.Hurst@kub.org**. The Knoxville Utilities Board will receive sealed Bids or electronic Bids in the Procurement Department, 4505 Middlebrook Pike, Knoxville, Tennessee 37921.

Email bid responses to [bids@kub.org](mailto:bids@kub.org) by same date and time with the following in the subject line: **#1289\_WBPS Process Meters**. Bidder will receive an auto-response within a reasonable time frame; otherwise please follow-up with the buyer.

Submit sealed bid responses to:

Physical Location

Knoxville Utilities Board  
Procurement Department  
4505 Middlebrook Pike  
Knoxville, TN 37921-5599

-OR-

Mailing Address

Knoxville Utilities Board  
ATTN: Shari Hurst, (PC28)  
P.O. Box 59017  
Knoxville, TN 37950-9017

The outside of the sealed box / container / envelopes containing the response shall be marked as follows:

Bid Title: **1289\_WBPS Process Meters**  
Due On: **May 30, 2018, at 2:00 P.M., EDT**

Sincerely,



Shari Hurst  
KUB Purchasing

## **Bid Terms and Conditions**

### **WBPS Process Meters, Control #1289**

- 1. Bidder must utilize KUB Bid Form / Price Sheet attached, and do not leave any blanks, or make any edits to the form (unless information is requested). Unit prices prevail.**
2. Items on Bid Form must meet attached specifications, and “equals” to the bid items will be accepted (from different manufacturers). However, Bidder must also submit specifications for the “equal” items (if applicable), to show they are the same as the items listed on the bid form. Failure to provide specifications for “equal” items will result in bid rejection.
3. Bidder must acknowledge and accept the Terms and Conditions (Exhibit A) by completing the information below, and submit with bid package.
- 4. Bidder must acknowledge any Addendums (if applicable) and include with bid package.**
5. KUB must have written notice of any conflicts, errors, or discrepancies which may be discovered in the Bidding Documents (at least 48 hours prior to the bid opening), and they will be addressed in an addendum, if applicable.
- 6. Email to [bids@kub.org](mailto:bids@kub.org).**
7. New companies must provide a completed W-9 (Request for Taxpayer Identification Number and Certification) or Social Security Number for 1099 Reporting.

**It is the intent of the Bidder that the materials and services work be performed in strict accordance with the Purchase Order Terms and Conditions (Exhibit A), and the bidder agrees to the stipulations listed above.**

Date:

---

Signed:

---

Title:

---

Company:

---

## EXHIBIT A

### Terms of Purchase Order

The Knoxville Utilities Board ("KUB"), a municipal utility created and existing pursuant to the Charter of the City of Knoxville, a municipality existing under the laws of the State of Tennessee; hereby orders the services, goods and/or equipment on the front of this purchase order ("P.O."), subject to and upon the express terms and conditions printed and written on the front and reverse hereof. All invoices, labels, shipping documents and correspondence must contain the purchase order number printed on the form hereof.

1. Acceptance-Vendor(s) acceptance of this order is expressly to the terms and conditions contained herein and acceptance with any additional conditions or modifications to this P.O. will be deemed a rejection of this order. If no notification is received by KUB within 15 days after vendor's receipt of the P.O. or if shipment of any good and/or equipment of any part is made, then it shall constitute an acceptance by the vendor(s) of the terms and conditions of this P.O.
2. Performance-Performance of this P.O. must be in accordance with its terms, dating, and conditions. No variation or modification of this P.O. is binding upon KUB unless such variation or modification is agreed to in writing by an authorized representative of the Procurement Department of KUB.
3. Delivery-Time of delivery at KUB's designated receiving facility is of the essence with respect to this P.O. If goods, equipment, or services delivery fail in any respect to conform to the terms of this P.O. or are otherwise non-conforming, KUB may in its sole discretion (1) reject the whole or (2) accept the whole or (3) accept any part and reject the balance or (4) cancel the order and order the equipment, goods, and/or services from another source and recover from the seller any additional costs incurred in ordering from another source and any other remedies under the Uniform Commercial Code codified at T.C.A. §§47-2-101 et. seq.
4. Price-Unless otherwise stated in this P.O., the price for the goods, equipment, and/or services covered hereby shall be the price quoted or contract price to KUB. Any allowable discount for prompt payment is to be calculated from the date the invoice is received in proper form or from the date the goods or equipment is received whichever date is later. Payment of invoices for major equipment, which is ordinarily tested or inspected for conformity to specifications before being put into service, will be held until certain testing or verification is completed, but not in excess of sixty (60) days from receipt of equipment, unless equipment is found to be defective or non-conforming.
5. Count-KUB's count of goods and materials shall be accepted as conclusive on all shipments. Charges for extras including but not limited to packing, loading, drayage, dunnage, or cartage shall not be accepted unless specifically stated on this P.O. No charges will be accepted for packaging, boxes, drums, barrels, reels, cores, etc.
6. Amendments-No agreement or understanding with respect to the amendment or modification of this P.O. shall be binding upon KUB unless approved in writing by an authorized representative of the Procurement Department of KUB. Each transaction between KUB and vendor is separate and distinct. No waiver of any breach of any terms or condition of this P.O. shall be construed as a waiver of any subsequent breach of that term or condition of the same or different nature of this or any other P.O. or contract of KUB related to the goods, equipment, and/or services ordered under this P.O.
7. Compliance-By accepting this P.O. vendor represents, warrants, and guarantees that all applicable provisions of federal, state, and local laws, ordinances, codes, rules, and regulations which are applicable to the manufacture and/or sale of the goods, services, and/or equipment have been complied with by the vendor. Vendor agrees to indemnify and hold KUB harmless against all losses, expenses violations, or alleged violations of this section by vendor or by any of its subsidiaries or affiliates. KUB and vendor agree that this provision of indemnity does not in any way constitute a waiver by KUB of its protections under the Governmental Tort Liability Act as codified in T.C.A. §§29-20-101 et. seq.
8. Nondiscrimination-KUB is an equal opportunity employer and as such requires that its vendors not discriminate on the basis of race, color, sex, religion, or ethnic origin. Acceptance of this P.O. constitutes vendor's acknowledgement of this provision. KUB encourages the use of small-business, minority, and women-owned business enterprises.
9. Choice of Law-This order and any subsequent contract related to this P.O. shall be governed by and construed with the laws of the State of Tennessee.
10. Force Majeure-Upon any discontinuance or substantial interference with KUB's business by reason of fire, flood, earthquake, and other acts of God, embargo, civil disturbance, acts of terrorism, governmental regulation or causes beyond KUB's control, KUB shall have the option of canceling any unfilled portion of this P.O. upon reasonable notice to vendor.
11. Default - KUB may by written notice of default to Vendor cancel the whole or part of this P.O. or exercise any other remedy provided to KUB by law or in equity including any remedy under the Uniform Commercial code as codified at T.C.A. §§47-1-101 et. seq. in any of the following circumstances 1) Vendor fails to make delivery of the goods within the time specified, 2) Vendor is in breach of any of the terms or conditions of the P.O. or 3) Vendor becomes insolvent or makes assignment for the benefit of creditors, or if there shall be instituted by or against Vendor any proceedings under any bankruptcy, reorganization, arrangement, readjustment or debt or insolvency law of any jurisdiction or for the appointment of a receiver or trustee in respect to any of vendor's property.
12. Title VI - Supplier shall comply with the requirements of all federal statutes relating to nondiscrimination, including but not limited to, Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin ("Title VI"). No person on the grounds of race, color, or national origin shall be excluded from participation in, denied benefits of, or be otherwise subject to discrimination in the performance of this PO. The Supplier shall upon request, show proof of such nondiscrimination.

## SPECIFICATIONS

Except where noted all specifications apply to operation at +25°C.

## General

**Display:** 0.56" (14.2 mm) red LED, 4 digits (-1999 to 9999)

**Front Panel:** NEMA 4X, IP65; panel gasket provided

**Programming Methods:** Four front panel buttons

**Display Update Rate:** 5/sec

**Overrange:** Display flashes 9999

**Underrange:** Display flashes -1999

**Recalibration:** All inputs are calibrated at the factory; recalibration is recommended at least every 12 months.

**Max/Min Display:** Stored until reset by user or meter is turned off.

**Password:** Restricts modification of programmed settings.

**Non-Volatile Memory:** Settings stored for a minimum of 10 years.

**Power Options:** 85-265 VAC, 50/60 Hz; 90-265 VDC, 20 W max or 12-36 VDC; 12-24 VAC, 6 W max.

**Required Fuse:** UL Recognized, 5 A max, slow-blow; up to 6 meters may share one fuse.

**Normal Mode Rejection:** 64 dB at 50/60 Hz

**Isolation:** 4 kV input/output-to-power line;

500 V input-to-24 VDC supply

**Operating Temperature:** 0 to 65°C

**Storage Temperature:** -40 to 85°C

**Relative Humidity:** 0 to 90% non-condensing

**Connections:** Removable screw terminal blocks accept 12 to 22 AWG. Note: RJ11 header for factory use only.

**Enclosure:** 1/8 DIN, high impact plastic, 94V-0, color; gray

**Weight:** 8.5 oz (241 g)

**UL File Number:** E160849; 508 Industrial Control Equipment

**Warranty:** 1 year parts & labor

## Process Inputs

**Inputs:** Field selectable: 0-20 mA, 4-20 mA, 0-5, 1-5 V,  $\pm 10$  V

**Accuracy:**  $\pm 0.05\%$  FS  $\pm 1$  count

**Function:** Linear

**Decimal Point:** Up to 3 decimals: d.ddd, dd.dd, ddd.d, or dddd

**Calibration:** Scale without signal or calibrate with signal source

**Calibration Range:** User programmable over entire range of meter

**Input Impedance:** Voltage range: greater than 1 M $\Omega$ ,

**Current Range:** 50-100  $\Omega$ , varies with resettable fuse impedance

**Input Overload:** Protected by auto-resettable fuse

**Temperature Drift:**  $\pm 50$  PPM/°C

**Transmitter Supply:** Isolated, P+, P-, 24 VDC  $\pm 10\%$  @ 200 mA max



## Disclaimer

The information contained in this document is subject to change without notice. Precision Digital Corporation makes no representations or warranties with respect to the contents hereof, and specifically disclaims any implied warranties of merchantability or fitness for a particular purpose.

©2009-2015 Precision Digital Corporation. All rights reserved.

## ORDERING INFORMATION

Sabre P • Model PD603		
85-265 VAC Model**	12-36 VDC** Model	Description
PD603-6R0-0*	PD603-7R0-0	Process Meter
PD603-6R0-1*		Process Meter with 24 V Transmitter Supply

\*\* All models may be powered from AC or DC. See Specifications for Details

\* Quick Shipment Program product, typically shipped within 2 working days

Note: Factory orders for Sabre products require a five (5) piece minimum of any combination of Sabre (PD603 & PD743) products. For instance, an order of three (3) PD603-6R0-0 and two (2) PD743-7R0-0 qualifies. For information on individual unit sales, please contact your local distributor.

NEMA 4 & NEMA 4X Enclosures			
Model	# of Meters	Description	Mounting
PDA2501	1	Plastic NEMA 4X Enclosure	Through Door
PDA2502	2	Plastic NEMA 4X Enclosure	Through Door
PDA2503	3	Plastic NEMA 4X Enclosure	Through Door
PDA2504	4	Plastic NEMA 4X Enclosure	Through Door
PDA2505	5	Plastic NEMA 4X Enclosure	Through Door
PDA2506	6	Plastic NEMA 4X Enclosure	Through Door
PDA2508	8	Plastic NEMA 4X Enclosure	Through Door
PDA2510	10	Plastic NEMA 4X Enclosure	Through Door
PDA2512	2	Plastic NEMA 4X Enclosure (Large)	Through Door
PDA2601	1	Stainless Steel NEMA 4X Enclosure	Through Door
PDA2602	2	Stainless Steel NEMA 4X Enclosure	Through Door
PDA2603	3	Stainless Steel NEMA 4X Enclosure	Through Door
PDA2604	4	Stainless Steel NEMA 4X Enclosure	Through Door
PDA2605	5	Stainless Steel NEMA 4X Enclosure	Through Door
PDA2606	6	Stainless Steel NEMA 4X Enclosure	Through Door
PDA2701	1	Steel NEMA 4 Enclosure	Through Door
PDA2702	2	Steel NEMA 4 Enclosure	Through Door
PDA2703	3	Steel NEMA 4 Enclosure	Through Door
PDA2704	4	Steel NEMA 4 Enclosure	Through Door
PDA2705	5	Steel NEMA 4 Enclosure	Through Door
PDA2706	6	Steel NEMA 4 Enclosure	Through Door
PDA2801*	1	Plastic NEMA 4X Enclosure	Through Cover

\* Quick Shipment Program product, typically shipped within 2 working days

Your Local Distributor is:

LDS603\_F 12/15

PRECISION  
DIGITAL

www.predig.com

PRECISION DIGITAL CORPORATION

233 South Street • Hopkinton MA 01748 USA • Tel (800) 343-1001 • Fax (508) 655-8990



**MODEL SELECTION****Model GTX60G(Standard gauge pressure, In-line model)**

Model No.: GTX\_\_G-Selection I (I II III IV V VI VII)-Selection II (I II III IV V VI) - Option

Basic Model No.

Measuring span	2.54 to 508 psig (17.5 to 3500 kPa)	GTX60G
----------------	-------------------------------------	--------

## Selection I

I	Output	4 to 20mA (SFN Communication)	A
		4 to 20mA (HART Communication)	B
		4 to 20 mA (SFN/HART Bilingual Communication) *2	E
II	Fill fluid	Regular type (Silicone oil)	A
		For oxygen service (Fluorine oil)	H
III	Material (Meter-body cover, Vent/ Drain plugs)	Meterbody cover	Vent / Drain plugs
		None (Direct mount)	None (Direct mount)
IV	Material (centerbody)	316 SST (Diaphragm:316L SST)	A
V	Process connections	Rc 1/2 internal thread	1
		1/2NPT internal thread	2
		1/2NPT external thread	3
		R1/2 external thread	4
		G1/2 external thread	5
		M20 × 1.5 external thread	7
VI	Process installation	Direct mounting	F
VII	Bolt/nut	None	X

## Selection II

I	Electrical connection	1/2 NPT, Watertight	A
		M20, Watertight *1	B
II	Explosion-proof	None	XX
		FM Explosion-proof	F1
		FM Intrinsically safe	F2
		FM Nonincendive	F5
		Combined of FM Explosion-proof, Intrinsically safe and Nonincendive	F6
		ATEX Explosion-proof	A1
		ATEX Intrinsically safe	A2
		ATEX Type n	A5
		IECEX Explosion-proof	E1
		IECEX Intrinsically safe	E2
		IECEX Type n	E5
		NEPSI Explosion-proof *3	N1
		NEPSI Intrinsically safe *3	N2
		NEPSI Type n *3	N5
III	Indicator	None	X
		With indicator	A
IV	Paint *13	Standard	X
		None (316 stainless steel housing) *This option will be available in the future.	E
		Corrosion-proof (Urethane)	H
V	Failure alarm	UP Scale	A
		DOWN scale	B
VI	Mounting bracket	None	X
		CF8 (L form)	I

Note) \*1 Not applicable for the combination with code F1 and F6 of Explosion-proof.

\*2 Not applicable for the combination with code Q1 "Safety Transmitter" of Option.

\*3 Not applicable for combination with code E of paint.