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DEPARTMENT OF WATER RESOURCES

JAMES R. BENNETTS, PLLC
ATTORNEY AT LAW
P.O. BOX 36
CHALLIS, IDAHO 83226-0036

TELEPHONE
(208) 879-4488

FAX
(208) 879-4248

January 5, 2009

NICK MILLER, P.E.
STAFF ENGINEER
WATER DISTRIBUTION
IDAHO DEPARTMENT OF WATE RESOURCES
322 E FRONT ST
BOISE ID 83720-0098
208-287-4956 (OFFICE)
208-287-6700 (FAX)

RE: Stanharrah – Water Sub-district # 71

Dear Nick:

We have again reviewed your preference regarding the type and specifications of water meter to be used on our system in compliance with the Department's requirements. In short, purchase and installation of the system you prefer will cost Stanharrah approximately $13,000 under its lowest bid estimate, while the clamp on model would cost approximately $2,000 installed.

While we understand that your preferred unit may be somewhat better or more accurate, we do not have any guarantee that this will be the case. Additionally, we know that installation of the preferred unit will result in a substantial interruption, downtime, and cost in the conduct of our business, which would not be true for the strap on unit. It also seems strange that the less costly unit similar to the one we would prefer to use is now in general use in other districts within the state and as far as we have learned from visiting with other users, no problems seem to have occurred. For your convenience, I have enclosed a data sheet illustrating the clamp on style that would save us considerably in cost and purports to be within a 1% accuracy range.

Somehow, Nick, this has gone a long way from the initial discussions I had with the director on this matter a couple of years ago. He suggested at that time that we could "ease" our way into metering compliance by determining electrical usage and thereby estimate gallons pumped, etc., we could then determine whether a flow meter would even be needed.

I would think that you must be aware that our business is not a moneymaker even in the best of years, so obviously, we are very strapped for funds this year. To throw an extra $10,000 + at this problem without more assurance than we have received regarding the

necessity to do so seems unwarranted. You might also consider that we seem to be one of the only (if not the only) commercial user(s) in the sub-district to be in this situation, and further, that our total usage for a season will be much more accurately determined regardless of meter type used than that of any of the irrigators using the weir system.

Please respond.

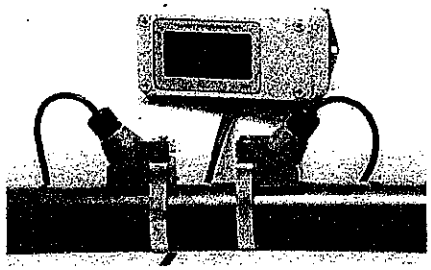
Very truly yours,

James R. Bennetts

JRB:mlb
Cc: Albert F. Pagni, Esq., for the Stanharrah Trustees
Neil Anderson

FLOW

Economical Clamp-on Transit -Time Clamp-On Flowmeter



Features:

-Low Cost
-Programmable
-Clamp-On transducers
-Works on bi-directional flows
-Line size 2" to 36"

Description

This Economically priced Clamp-on Ultrasonic Transit Time Flowmeter indicates Rate and Total flow. It is easy to program, installs in seconds on most pipe materials and sizes. Requires a Laptop or PC to program. Ideal for full pipe, clean liquids applications such as water, well water, final effluent, chilled water, process water, DI water, RO water, flow monitoring. **Save money** and purchase by the kit or customize and purchase separately under spare parts.

Part Number	Description	Price
DTFXL-KIT20	Transit Time flowmeter Kit, includes: DTFXL2-XA1-NN, DTTN-020 & mtg kit, TFXL-CAB, SER-USB, Software download, PS-12VDC.	$1,664
DTFXL-KIT50	Transit Time flowmeter Kit, includes: DTFXL2-XA1-NN, DTTN-050 & mtg kit, TFXL-CAB, SER-USB, Software download, PS-12VDC .	$1,734
DTFXL-KIT100	Transit Time flowmeter Kit, includes: DTFXL2-XA1-NN, DTTN-100 & mtg kit, TFXL-CAB, SER-USB, Software download, PS-12VDC.	$1,839
	Spare Parts	
DTFXL2-XA1-NN	Flowmeter, Indicator, Transmitter	$970
DTTN-020	Transducer, 20 ft Std cable	$590
DTTN-050	Transducer, 50 ft Std cable	$660
DTTN-100	Transducer100ft Std cable	$765
DTTN-020-A	Transducer 20 ft w/conduit	$660
DTTN-050-A	Transducer, 50 ft w/conduit	$750
DTTN-100-A	Transducer100ft w/conduit	$999
TFXL-CAB	PC Communications Cable	$ 100
TFXL-CD	Software on CD	$ 30
SER-USB	Serial to USB adapter	$ 49
-F	Intrinsically Safe Transducer	$580
TFXL-CAL	Calibration Certificate (Factory –not NIST)	$100
DTFXL-MT	Mounting Track Assembly 2-10" (254mm)	$185
DTFXL-MT2	Mounting Track Assembly 2-16" (406mm)	$245
F-100-Strap	36: SS Steel Mtg Strap	$10
F-100-100	Acoustic Couplant, tube.	$20
PS-24-300	Power Supply 115 AC/24DC Din rail mug	$80
PS-12VDC	Power cord, 120 Vac to 12Vdc with plug	$30

SPECIFICATIONS:

P/N# DTFXL

INDICATOR / TRANSMITTER

Enclosure.....Nema 3 ABS
Accuracy +/- 1% of Rate > 1fps (0.3 MPS); +/-0.01 FPS (.003 MPS) of reading at lower than 1 FPS (0.3 MPS)
Response Time....0.3 to 30 seconds, adjustable
Power:..... 11-30 VDC @0.24A (Option- 24PS; is a 115 VAC to 24 VDC power supply)
Display.....2 Line x 8 character LCD: Rate & Total.
Units ..... ENG UNITS: Feet, gallons, ft^3, mil-gal, barrels (liquor & oil), acre-feet, lbs, meters, liters, m^3, mil-liters, kg.
RATE UNITS: sec, min, hr, day
Flow Range.....0.1 to 40 FPS (0.03 to 12.4 MPS)
Output.....Analog 4-20mA, Frequency 0 – 1,000 Hz or TTL Pulse Output
Communications.. (OPTION TFXL-CAB & CD) RS232 Interface using laptop or PC, software, serial cable.
Temp..... -40^0 to 185^0 F (-20^0 to 85^0 C)

P/N# DTTN

TRANSDUCERS

Type..... Clamp-On, Std 20 ft of cable.
Material..... CPVC
Pipe Size..... 2" to 36" (50 to 900mm)
Pipe Material.... Carbon Steel, Stainless Steel, Copper, Ductile Iron & Plastic.
Mounting..... (2)36" SS Steel Mtg straps (Option-MT Graduated Mounting Track Assembly)
Cable.....STD, Bare RG59, (Option-A, Flexible armored conduit)
Temp..... -40^0 to 250^0 F (-20 to 122^0 C)
Intrinsically Safe.. (Option –F) Transducer with Isolation barrier kit. Rated for Hazardous environments Class 1, Div 2, Group C & D.

Data Sheet DTFXL rev 7.15.08