

**New  
Feature**

## "Mini Sonic" Ultrasonic Transmitters- Standard Mtg.



730 The Kingsway Peterborough , Ont. K9J6W6 Canada  
Tel: (705) 740 – 2010 Web: www.abmsensor.com  
Fax: (705) 740 – 2563 E-mail: info@abmsensor.com

### FEATURES

Standard 5 feet of interconnection cable  
Simple push-button calibration  
Output 4- 20 mA / 20- 4 mA  
Built-in temperature compensation  
Optional High Level Alarm relay  
dual pole output 5A/230 Vac  
Optional RS485 communications with  
calibration, diagnostics and data  
logging software  
PLC compatible  
Three Wire Operation

### APPLICATIONS

Food and Beverages  
Water  
Pharmaceutical

### Mounting

2" NPT

### ENVIRONMENTAL

Temperature : - 40 to 140°F(- 40 to 60°C) PVC Body  
Pressure : 1 –10 bar  
Installation Category : Class II

### MECHANICAL

#### Std. Interconnection Cable :

- 5'- Belden #9503 : 3 Pair-24AWG
- 1) Supply : 12 - 30 Vdc 1 pair shielded (Red/Blk.)
- 2) Output : 4 - 20 mA 1 Pair shielded (Blk./Green)
- 3) Comm.:RS485 (optional) 1 Pair Shielded (Blk./Wht.)

#### Optional Relay Cable :

- 5'- Belden #9493 : 3-18 AWG unshielded
- 1) Relay (optional) DPST 5A /230Vac

#### Enclosure : PVC-94V0

Standard Unit - Ingress Protection : NEMA 6P (IP68)



**New ! Fast Motion Detector**  
10 echoes / sec. Or Higher

### OPERATIONAL

Accuracy : +/-0.10% of max. range  
(in lab using 4-20 Ma current output)  
+/-0.25% of max. range (typically in field)  
Response Time: Standard. Unit 2 - 3 echoes / sec.  
: Std. with less damping 6 echoes / sec.  
: Fast Protocol \*\* I.R. 10 echoes / sec.  
Or higher \*\* IF Required  
Beam Angle : 10 - 12 degree at -3dB  
Loss of Echo : Programmable from 1 min. to 4 min.  
(Default = 1 min.) 22mA or 2 mA output  
Temp. Comp. : In transducer  
Calibration : Push-button or programmable  
via optional communications port  
Diagnostics : (Echo Profile) via communications port  
High Level Alarm 5A. Relay has hysteresis and delay  
of 5% of the tank height, this can be adjusted using  
Communications software. Relay's state changes at  
20mA calibration point or at 4 mA calibration point. To  
switch the above "push-button" or "communication soft-  
ware" can be used . Using push-button press and hold  
until the light goes off. Continuous green light indicates  
alarm at 20mA. ,blinking green indicates alarm at 4 mA.  
Relay "ON" set point is adjustable using communica-  
tions software.

### ELECTRICAL SPECIFICATIONS

<b>Power DC</b> ABM300	12 to 30 VDC , 0.07 A max @ 24 Vdc R load = (Vs — 6) / 24 mA
<b>Output</b>	4-20 mA Output 6.1 uA resolution
<b>Optional</b>	- communications port RS485 - Relay DPST 5A / 230 Vac

**CATALOGUE #** - On the Web return to Home Page &  
refer to Catalogue Number Structure for Ordering  
information. In Product Documentation refer to page 3.

### TECHNICAL SPECIFICATIONS

Range Code	Operating Range in Liquids	Resolution	Mounting NPT
080	0.8 - 20 ft. 0.2 - 6 m	0.03" 0.7 mm	2"