



Operating Parameters & Specifications

- Temperature range: 0°C 40°C
- Response time: 0.2ms
- Input: 5VDC-24VDC
- Output: 3.3 V TTL Logic

AD-101 Air Bubble Detector

Bubble detection is critical in applications such as infusion pumps, hemodialysis and blood flow monitoring. TE Connectivity (TE) has developed a new compact AD-101 Air Bubble Detector (ABD) for non-invasive continuous monitoring of fluid for air bubble detection. Using ultrasonic technology, the AD-101 sensor is capable of positively identifying the presence of a break in flow of any type of liquid.

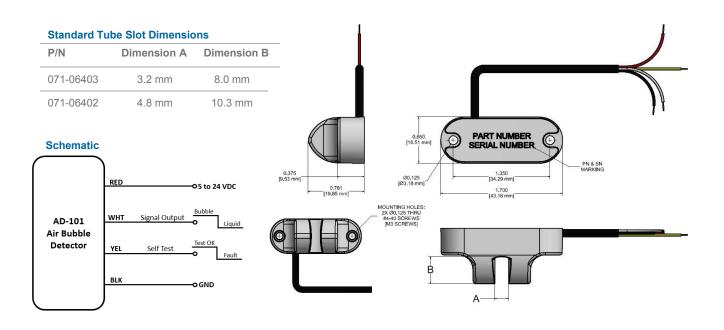
Features

- Detects bubble size as small as 70% of tubing inner diameter
- Tubing outer diameters of 4mm and 6mm standard (sensor can be customized to tubing outer diameters between 3 and 10 mm)
- Non-invasive design eliminates sterility and fluid compatibility concerns
- High noise immunity to EMI/RFI
- Acoustic coupling agent not required
- Integral electronics
- Power-on and continuous self-diagnostic tests to confirm functionality
- LED indication of sensor wet and dry state visible through housing

Applications

- Infusion Pump
- Apheresis/Auto-transfusion
- Biotech/DNA Analysis
- Blood Processing
- Immunoassay
- Chemical Analysis

- Hemodialysis
- IN-VIVO Detection of Gas
- Hydroponics
- Smart Farming
- Food Processing



Specifications

Input	Red = 5 – 24 VDC Black = GND
Sensor Output	White = Output 3.3V TTL, Low When Liquid Present, High When Bubble Present
Self-Test Output	Yellow = Self-test output, 3.3V TTL, High When Pass, Low When Fault
Response Time	0.22 Milliseconds
Temp. Range	0 to 40°C
Bubble Size	Smallest bubble detected =70% of tubing I.D.
Material	ABS/PC (55/45) Plastic Blend, Injection Molded Parts, UL 94 V-2 Rated
Cable	4 Conductor 28AWG, 350mm Long UL Style Number 2725
Electronics	Integral

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company Tel 800-522-06752 (option 2) customercare.hmpt@te.com

EUROPE

Measurement Specialties, (Europe) Ltd., a TE Connectivity Company Tel +31-73-624-6999 customercare.dtmd@te.com

Pin Out Pin Function Color 1 Black GND 2 White Output 3 Yellow Self-test 4 Red 5 - 24 VDC

Part Number	Description
071-06403 or	AD-101 compact
10217784-00	ABD assembly 4MM
071-06402 or	AD-101 compact
10217758-00	ABD assembly 6MM

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company Tel 400-820-6049 customercare.shzn@te.com

TE.com/sensorsolutions

TE Connectivity, TE connectivity (logo), and Measurement Specialties are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2017 TE Connectivity. All Rights Reserved.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Flow Sensors category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below :

NEVO600 INPUT CABLE SET SINGLE OUTPUT CABLE SET FS1010 AWM43300VH AWM730P1 HAFBLF0400C5AX3 D6F-50A61-000 FS1010-C01 HAFBLF0100C4AX5 HAFBLF0050C4AX3 D6F-05N7-000 2066.3101 AWM5104VN-IT FPP800KIT1 ATS-FM-22 ATS-FM-34 ATS-FM-44 ATS-FM-M VSR-3 81501025 81525101 81529901 SSV66A141S1GP FSU12A FSU12LF FSU34A FSU34LF FSU50A FSU50LF FSU75A FSU75LF AWM1200V AWM2100V AWM2100VH AWM2150V AWM2200V AWM2300V AWM3100V AWM3150V AWM3200V AWM3300V AWM3303V AWM42150VH AWM42300V AWM43300V AWM5101VA AWM5101VN AWM5102VN AWM5103VN AWM5104VA