

# ACCELERATION TRANSDUCERS

## ARH-A Waterproof, Low capacity Acceleration Transducer 10~500m/s<sup>2</sup>



**Waterproof type**

The ARH-A acceleration transducer has a waterproof structure. It is installed in water or ground or embedded in concrete. The rigid waterproof structure makes this transducer suitable for use in an adverse environment or for outdoor use.

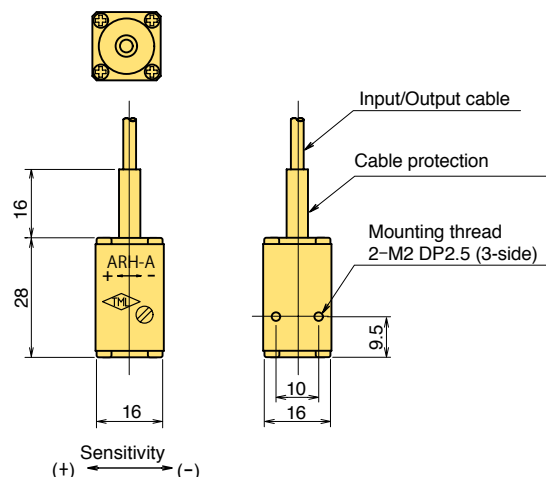
Protection ratings: IP67 equivalent

### ■ SPECIFICATIONS

TYPE	ARH-10A	ARH-20A	ARH-50A	ARH-100A	ARH-200A	ARH-500A
Capacity	10m/s <sup>2</sup>	20m/s <sup>2</sup>	50m/s <sup>2</sup>	100m/s <sup>2</sup>	200m/s <sup>2</sup>	500m/s <sup>2</sup>
Rated Output	0.5mV/V(1000×10 <sup>-6</sup> strain)					
Non-linearity	1%RO					
Frequency response range	DC~50Hz	DC~80Hz	DC~130Hz	DC~180Hz	DC~310Hz	DC~520Hz
Natural frequency	100Hz	150Hz	240Hz	300Hz	520Hz	870Hz
Allowable temperature range	-10 ~ +50°C					
Over load	300%					
Input/Output resistance	120Ω					
Recommended exciting voltage	2V or less					
Allowable exciting voltage	5V					
Water pressure resistive	500kPa					
Weight	18g					

Input/Output cable : φ 3.2mm 0.08mm<sup>2</sup> 4-core shielded vinyl cable 5m

Shield of Input/Output cable is grounded to the body.



## ARK-A Small High response Acceleration Transducer 1000m/s<sup>2</sup> / 2000m/s<sup>2</sup>



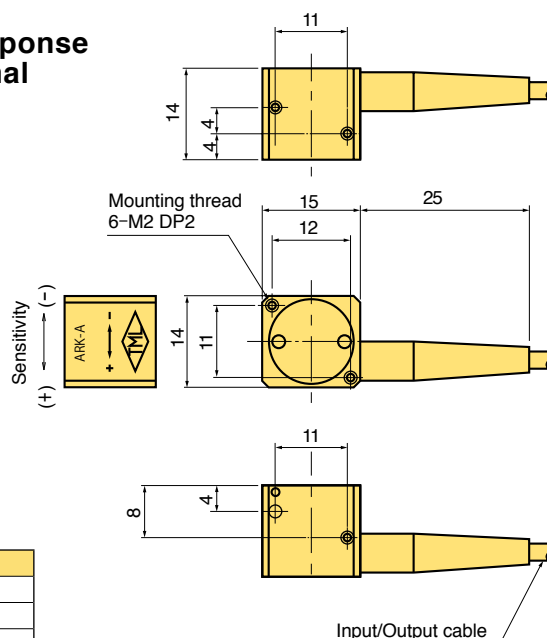
**1.5 times higher response  
than our conventional  
accelerometers**  
**Compact**  
**Easy handling**

The ARK-A acceleration transducer is highly responsive in the range of high frequencies. It is suitable for impact acceleration measurement

Protection ratings: IP61 equivalent

### ■ SPECIFICATIONS

TYPE	ARK-1000A	ARK-2000A
Capacity	1000m/s <sup>2</sup>	2000m/s <sup>2</sup>
Rated Output	0.5mV/V(1000×10 <sup>-6</sup> strain)	
Non-linearity	1%RO	
Frequency response range	DC~2kHz	DC~3kHz
Natural frequency	3kHz	4.5kHz
Allowable temperature range	-10 ~ +50°C	
Over load	300%	
Input/Output resistance	120Ω	
Recommended exciting voltage	2V or less	
Allowable exciting voltage	5V	
Weight	10g	



Input/Output cable :  
φ 3.2mm 0.08mm<sup>2</sup> 4-core shielded vinyl cable 5m  
Shield of Input/Output cable is grounded to the body.