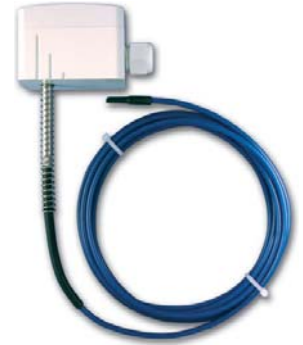


550e	<b>Product Information</b>	<b>thermokon</b> asia pacific
TDE2- Series (T_av)	<b>Duct Temperature Average Passive Sensor</b>	

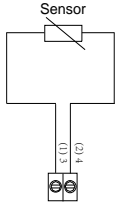






The TDE2-Series (T\_av) is designed for the average temperature measurement in air ducts, air out/inlets or heat/cool registers. The sensor output is passive.

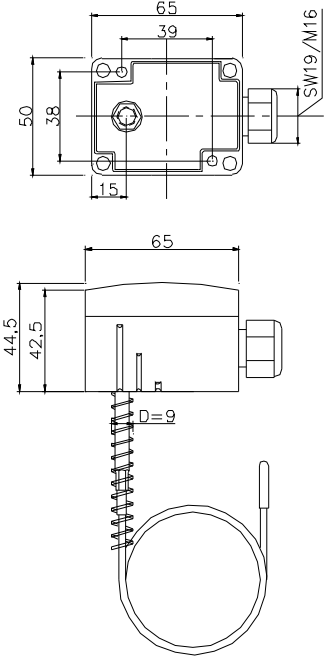
<b>Use</b>	<p>Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System</p> <p>Averaging temperature measurements in air ducts</p> <p>Used in all common HVAC applications</p> <p>Used in Commercial and Industrial Buildings</p>
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<b>Features</b>	<p>Sensor with passive output</p> <p>Different immersion lengths for all common air duct and water pipe sizes</p> <p>Professional and practical product design, withstands rough environmental conditions</p> <p>Easy to use, install and maintain</p>
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<b>Product Range</b>	<table border="1"> <thead> <tr> <th rowspan="2">Model</th> <th colspan="2">Sensor Output</th> <th colspan="2">Temperature Rod Length</th> </tr> <tr> <th>PT1000</th> <th>Ni1000</th> <th>3000mm</th> <th>6000mm</th> </tr> </thead> <tbody> <tr> <td>TDE2.AG</td> <td style="text-align: center;">•</td> <td></td> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td>TDE2.AK</td> <td></td> <td style="text-align: center;">•</td> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td>TDE2.BG</td> <td style="text-align: center;">•</td> <td></td> <td></td> <td style="text-align: center;">•</td> </tr> <tr> <td>TDE2.BK</td> <td></td> <td style="text-align: center;">•</td> <td></td> <td style="text-align: center;">•</td> </tr> </tbody> </table>	Model	Sensor Output		Temperature Rod Length		PT1000	Ni1000	3000mm	6000mm	TDE2.AG	•		•		TDE2.AK		•	•		TDE2.BG	•			•	TDE2.BK		•		•
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Sensor Specification	Sensor Specification	Measured Sensor Characteristics Sensor Output (s) Measuring Current Accuracy Measuring Range (s)	Temperature Passive See Product Range, Page 1 <1mA ± 3K over full measuring range -50°C...80°C
Technical Information	Electrical Information Mechanical Information  User Interface Color and Materials  Environmental Conditions  Norms and Directives	Terminal Clamp Immersion Rod Diameter Immersion Rod Length Cable Entry Sensing Element Position None Housing Cover Housing Bottom Lock Screws Cable Gland Gland Rubber Seal Immersion Rod Operation Temperature Operation Humidity Transport Temperature Transport Humidity Storage Temperature Storage Humidity IP- Rating Safety Class Product Standard 1 Product Standard 2 CE Conformities to CE Electromagnetic Compatibility Emitted Interference CE Electromagnetic Compatibility Interference resistance RoHS Compatibility Operation Climatic Condition Operation Mechanical Condition Transport to Climatic Condition Transport Mechanical Condition Storage Climatic Condition Storage Mechanical Condition	Screw terminal, max. 1.5mm <sup>2</sup> Ø9mm See Product Range, Page 1 M20, Ø6...Ø8mm cables external, along the immersion rod  White PA6, RAL9001 (Cream White) White PA6, RAL9001 (Cream White) Zinc ZLO410, Fast Connectors 90° White PA6, RAL9001 (Cream White) White ENSOFT50, RAL9016 (Traffic White) Green PE -25°C...+70°C 100% r.h., with condensation -35°C...+70°C < 90% r.h. -10°C...+70°C < 85% r.h., no condensation IP65 to IEC60529 III to EN 60 730 Automatic Electric. Controls for household and similar use 2009/EN 60 730-1 2004/108/EG Electromagnetic Compatibility EMV 2000/EN60730-1 Emitted Interference 2000/EN60730-1 Interference Resistance RoHS 2011/65/EC IEC 60 721-3-3 IEC 60 721-3-2 to class2M2 IEC 60 721-3-2 IEC 60 721-3-2 to class2M2 IEC 60 721-3-1 IEC 60 721-3-1 to class2M2
Connection	Terminal Connection		
Miscellanies	Accessories Shipping & Handling  Order Notes	Mounting Kit, Included in delivery  Minimum Order Product Dimension (L x W x H) / ~Weight  Transport and Storage dimension (L x W x H) / ~Weight  Package Material  Order Code	Duct Mounting Set  1 box with 1 piece 90mm x 90mm x 150mm / 250gr. (Rod Length 3000mm) 90mm x 90mm x 150mm / 350gr. (Rod Length 6000mm) 90mm x 90mm x 150mm / 270gr. (Rod Length 3000mm) 90mm x 90mm x 150mm / 370gr. (Rod Length 6000mm) Rigid Cardboards Packaging  See Product Range, Page 1, e.g. TDE2.AG
<p style="text-align: center;">All Information and technical data are subject to alteration</p> <p>Thermokon Asia Pacific <span style="margin-left: 200px;">TDE2- Series (T_av) V2.0</span> <span style="float: right;">Page 2/3</span></p>			

<b>Advices</b>	<p><b>Security Advice</b></p>  <p>The installation and assembly of electrical equipment may only be performed by a skilled electrician. The products must not be used in any relation with equipment that supports, directly or indirectly, human health, life or with applications that can result in danger for people, animals or real value.</p>
	<p><b>Mounting Advices</b></p>  <p>The products can either be mounted directly on the ventilation duct with the mounting flange or by screws. The sensor rod has to be solid braced to the ventilation duct.</p>
	<p><b>Installation Notes</b></p>  <p>The product must be installed at a suitable place and within the range of validity of the local electrical installation laws and regulations. Due to the self-heating, the wire current should not exceed 1mA.</p>
	<p><b>Commissioning Notes</b></p>  <p>Sensing devices with transducers should in principle be operated in the middle of the measuring range. The ambient temperature of the transducer electronics should be kept constant.</p>

<b>Dimensional Drawing</b>	 <p style="text-align: center;">TDE2.AG/AK/BG/BK</p>
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