



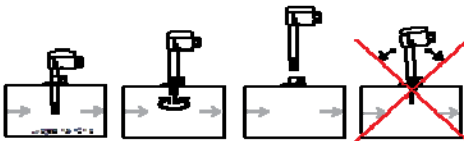


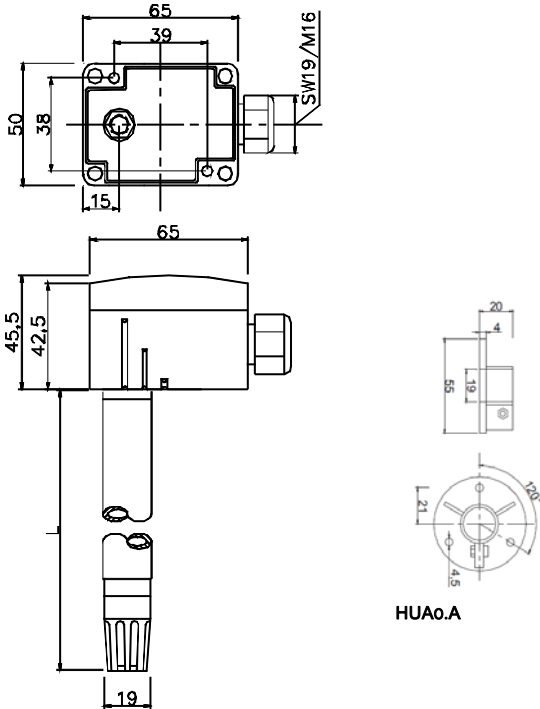


2020e		Product Information																						
GDI1- Series (VOC)		Air Quality (VOC) Duct Sensor																						
<div><p>The GDI1-Series (VOC) is designed to measure the air quality in ducts of heating, ventilation and air-conditioning systems. The air quality is measured based on VOC levels (VOC= volatile organic compounds= mixed gases). The air quality sensor output is active.</p></div> <div></div>																								
Use	<div>Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System</div> <div>Air quality (VOC) measurement in air ducts</div> <div>Used in all common HVAC applications</div> <div>Used in Commercial and Industrial Buildings</div>																							
Features	<div>Sensor with active output</div> <div>On-site calibration possibility for air quality output</div> <div>Different immersion lengths for all common air duct sizes</div> <div>Professional and practical product design, withstands rough environmental conditions</div> <div>Easy to use, install and maintain</div>																							
Product Range	<table><tr><th rowspan="2">Model</th><th>Sensor Type</th><th>Sensor Output</th><th colspan="2">Mounting Length</th></tr><tr><th>VOC</th><th>0-10V</th><th>130mm</th><th>260mm</th></tr><tr><td>GDI1.AA</td><td>•</td><td>•</td><td>•</td><td></td></tr><tr><td>GDI1.BA</td><td>•</td><td>•</td><td></td><td>•</td></tr></table>					Model	Sensor Type	Sensor Output	Mounting Length		VOC	0-10V	130mm	260mm	GDI1.AA	•	•	•		GDI1.BA	•	•		•
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<div><div>Thermokon Asia Pacific</div><div><div>All Information and technical data are subject to alteration</div><div>GDI1- Series (VOC) V2.0</div></div><div>Page 1/3</div></div>																								

Sensor Specification	Sensor Specification	Measured Sensor Characteristics Sensor Output (s) Output Load Measuring Range (s)	Gases VOC Active See Product Range, Page 1 Min. load 10kΩ @ AC/DC 24V 0...100% VOC						
Technical Information	Electrical Information	Power Supply Frequency Terminal Clamp Power Consumption	AC 15-24V (±10%) or DC 24V (±10%) 50 / 60 Hz at AC 24V Screw terminal, max. 1.5mm² 24V; 1.2W / 2.2VA						
	Mechanical Information	Immersion Rod Diameter Immersion Rod Length Cable Entry Sensing Element Position	Ø19mm See Product Range, Page 1 M20, Ø6...Ø8mm cables external, top of the immersion rod						
	User Interface	None							
	Color and Materials	Housing Cover Housing Bottom Lock Screws Cable Gland Gland Rubber Seal Immersion Rod	Clear PA White PA6, RAL9010 (Pure White) Zinc ZLO410, Fast Connectors 90° White PA6, RAL9010 (Pure White) White ENSOFT50, RAL9016 (Traffic White) Black PVC, RAL 9017 (Traffic Black)						
	Environmental Conditiord	Operation Temperature Operation Humidity Transport Temperature Transport Humidity Storage Temperature Storage Humidity	-25°C...+70°C <85% r.h., no condensation -35°C...+70°C < 90% r.h. -10°C...+70°C < 85% r.h., no condensation						
	Norms and Directives	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	IP20 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	<table><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>VOC Out 0...10V</td><td>24V AC/DC</td><td>GND</td></tr></table> GDI1.AA / BA	1	2	3	VOC Out 0...10V	24V AC/DC	GND	
	1	2	3						
VOC Out 0...10V	24V AC/DC	GND							
Miscellanies	Accessories	Mounting Kit, Included in delivery	Duct Mounting Kit, HUA						
	Shipping & Handling	Minimum Order Product Dimension (L x W x H) / Weight Transport and Storage dimension (L x W x H) / Weight Package Material	1 box with 2 pieces, multiple of 2 pieces 95mm x 58mm x 176mm / 150gr. 210mm x 115mm x 75mm / 400gr. Rigid Cardboards Packaging						
	Order Notes	Order Code	See Product Range, Page 1, e.g. GDI1.AA						

Advices	<div><div>Security Advice</div><div><div> Caution</div><div><p>The installation and assembly of electrical equipment may only be performed by a skilled electrician.</p><p>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></div></div></div>
	<div><div>Mounting Advices</div><div><div><div> Caution</div><div><p>For risk of condensate permeation in the sensor tube respectively in the immersion pocket, the sensor must be installed that occurred condensate can run off.</p></div></div><div></div></div></div>
	<div><div>Installation Notes</div><div><div><div> Caution</div><div><p>The product must be installed at a suitable place and within the range of validity of the local electrical installation laws and regulations.</p><p>Due to the self-heating, the wire current should not exceed 1mA.</p><p>Due to air circulations dirt and dust particles can be piled up in the course of time on the sintered filter which is protecting the sensor. The filter can be cleaned by blowing it out with oil-free and filtered compressed air, super-clean air or nitrogen or by washing it out with distilled water.</p></div></div></div></div>
	<div><div>Commissioning Notes</div><div><div><div> Caution</div><div><p>Sensing devices with transducers should in principle be operated in the middle of the measuring range.</p><p>The ambient temperature of the transducer electronics should be kept constant.</p><p>When switching the supply voltage on/off, power surges must be avoided on site.</p><p>Refrain from touching the sensitive sensor. Any touch of the same will result in an expiration of the warranty.</p><p>With normal environmental conditions we recommend a recalibration interval of around 1 year to maintain the indicated</p></div></div></div></div>
Dimensional Drawing	<div><div></div><div><div>HUA0.A</div></div></div>
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