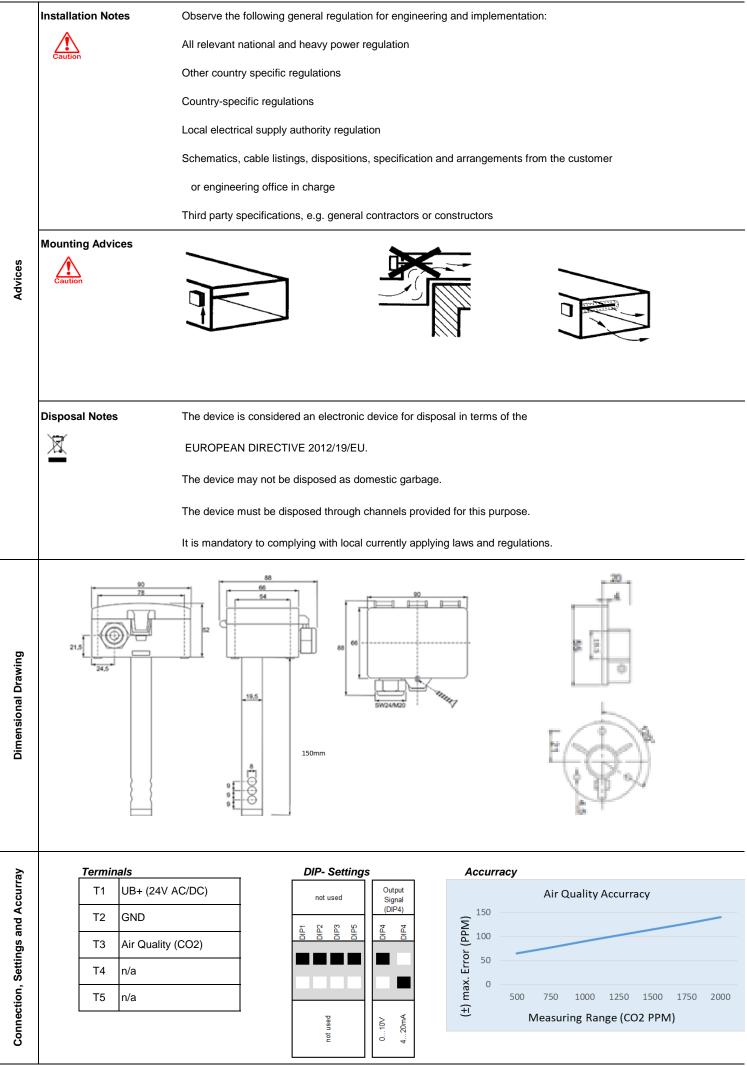
	TI2	219en		Tech	nnical Infor	rmation		+bacmakaa®		
GDI1- Series (CO2)		s (CO2)	Duct Air Quality (CO2) with Active Output					thermokon [®] asia pacific		
				w	ith Active O	utput				
			?) is designed to n and air conditi			ucts				
The	e air qua	ality is meas	ured based on (CO2 levels (CO	D2 = Carbon c	dioxide)				
The	e senso	r operates v	ith low power s	upply (SELV)						
The	e air qua	ality sensor	output is active							
	Compatible with all common HVAC DDC and Analog Controls systems, with/without Building Automation System									
Use	Air quality (CO2) measurement in air ducts									
	Used in all common HVAC applications									
	Used in Commercial and Industrial Buildings									
	Sensor with active output									
Features	Dual channel system with automatic calibration									
	Can be used 24h / 365d applications such as call center, hospital, etc.									
	Sensor output 010V or 420mA, field selectable									
	Professional and practical product design, withstands rough environmental conditions									
	Eas	sy to use, ins	stall and maintai	n						
Product Range		Order Code	Power Supply	Sensor Output CO2	Immersion Length	Accuracy	IP- Protection			
		GDI1.HE	AC/DC 24V (±10%)	010V or 420mA field selectable	150mm	± 40PPM +5% of reading	IP54 according to EN60529, IP65 with bolted cover			
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	Sensor Specification	Measured	CO2		
		Sensor Characteristics	Active		
Sensor Specification		Sensor Output	010V or 420mA		
		Accuracy	max. \pm 40ppm or \pm 5% of measured value		
		Repetability	± 10PPM		
		Drift	max. ± 5PPM+ 0.5% of reading		
		Response Time (T ₆₃)	60 sec.		
		Sensor Element	Photoacoustic CO2 sensor technology		
		Measuring Range	02000ppm		
	Electrical Information	Power Supply	AC/DC 24V (±10%)		
		Frequency	50 / 60 Hz @ AC 24V		
		Output Load	Min. load 10kΩ @ AC/DC 24V		
		Measuring Current	<1mA		
		Power Consumption	Max. 3.0W		
	Mechanical Information	Sensor Pipe Diameter	Ø19.5mm		
		Sensor Pipe Length	150mm		
		Sensing Element Position	Inside the housing		
	User Interface		None		
	Color and Material	Housing Cover	PA6, pure white		
		Housing Bottom	PA6, pure white		
		Cable Gland	ABS, Red 2002 (Vermilion)		
		Gland Rubber Seal	ENSOFT50, RAL9016 (Traffic White)		
		Sensor Pipe	PA6, RAL 9017 (Traffic Black)		
Information	Environmental Condition	Operation Temperature	0°C+50°C		
		Operation Humidity	<85% r.h., no condensation		
5		Transport Temperature	-35°C+70°C		
		Transport Humidity	< 90% r.h.		
		Storage Temperature	-20°C+70°C		
-		Storage Humidity	< 85% r.h., no condensation		
	Norms and Directives	IP- Rating	IP54 according to EN 60529, IP65 with bolted cover		
		Safety Class	III to EN 60 730		
		Product Standard 1	Automatic Electric. Controls for household and similar us		
		Product Standard 2	2009/EN 60 730-1		
		CE Conformities	2004/108/EG Electromagnetic Compatibility EMV		
		Emitted Interference	2000/EN60730-1 Emitted Interference		
		Interference Resistance	2000/EN60730-1 Interference Resistance		
		RoHS Compatibility	RoHS 3, Directive 2015/863		
		Operation Climatic Condition	IEC 60721-3-3		
		Operation Mechanical Condition	IEC 60721-3-2 to class 2M2		
		Transport to Climatic Condition	IEC 60721-3-2		
		Transport Mechanical Condition	IEC 60721-3-2 to class 2M2		
		Storage Climatic Condition	IEC 60721-3-1		
		Storage Mechanical Condition	IEC 60721-3-1 to class 2M2		
2	Accessories	Mounting Kit, Included in delivery	Duct Mounting Kit, HUA0.A		
2	Shipping & Handling	Minimum Order	1 box with 1 piece		
Miscellaneous		Packaging Material	Rigid Cardboard		
ñ	Order Notes	Order Code	GDI1.HE		



All Information and technical data are subject to alteration GDI1- Series (CO2) V22.1