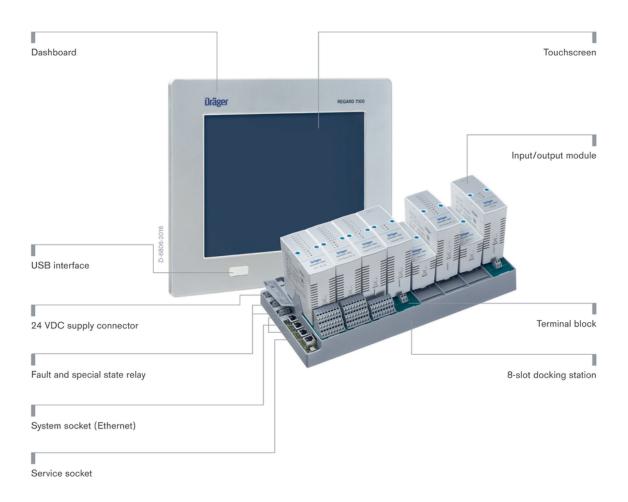


# Dräger REGARD® 7000 Control System

When you need to monitor and analyze a number of various gases and vapors, the Dräger REGARD® 7000 is a modular and highly expandable analysis tool. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 is exceptionally reliable and efficient. An additional benefit is the system's backward compatibility with legacy REGARD® controllers.



### **Benefits**

### Highly compatible, highly customizable

The Dräger REGARD 7000 was designed to meet the individual requirements of a wide range of different infrastructures. It processes analog transmitter signals and supports remote access via HART®. A Modbus RTU interface enables information in higher-level systems to be processed. Complex alarms can be fitted to suit your specific requirements, and switching delays can be configured to optimize your processes. The modular structure of the REGARD 7000 makes it possible to adapt the design of the system to suit your exact needs. The system can be altered or extended with ease, and can also be connected to existing REGARD equipment. This enables you to extend the management and documentation advantages of the REGARD 7000 to the entire system.

### Minimize false alarms

The REGARD 7000 uses a 'masterless' system architecture. This prevents the entire system from failing if one component fails (single point of failure) and makes it easier to add on independent subsystems. The use of optimized software filters in signal preparation, the alarm suppression option, and the comparison of analog and digital transmitted measurement values mean that false alarms are prevented more effectively than ever before. Special signals (errors, warnings, etc.) that are transmitted in analog form are always correctly identified, facilitating the assessment process.

### Optimal installation and configuration

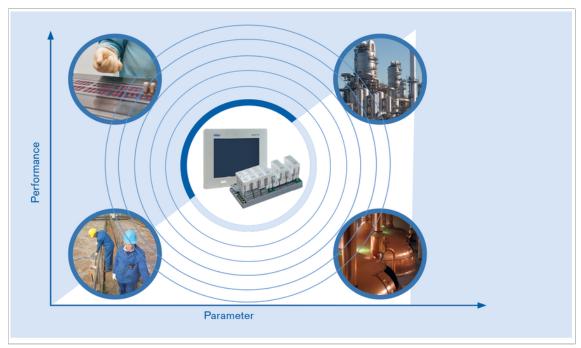
Channel configuration is made significantly faster and more secure using metadata, transmitted via HART®, from the transmitter or the configuration assistant. Logical restrictions on the possible manual settings prevent incorrect configurations. The REGARD 7000 prepares documents directly at the source. The system is easy to learn and easy to use, with a simple menu structure and user-friendly displays and symbols on the dashboard—making operation as safe and secure as possible. The wiring can be clearly structured and tucked away before the main components are installed.

### Efficient maintenance and documentation

The REGARD 7000 is able to use HART® communication, which enables you to maintain your gas warning system much more efficiently by accessing all connected HART®-enabled transmitters remotely from a central point. Central management makes it easier to efficiently prepare materials and tools for maintenance and guide service personnel with greater accuracy. Simulations can be started on the transmitter via remote access to test allocations, for example.

The REGARD 7000 can also generate necessary documentation for regulatory authorities—without the need for additional tools.

# Efficient gas warning control for facilities of any complexity



The Dräger REGARD® is ideal for wastewater treatment plants, breweries, and pharmaceutical and chemical facilities. Because of its modular design, the control unit grows with its tasks—reliably monitoring everything from small operations to large sites of any complexity.

# System Components



### Dräger PIR® 7000

Constant monitoring of flammable gases and vapors is essential for a safe workplace. The Dräger PIR® 7000 is an explosion-proof point gas detection transmitter that uses infrared (IR) technology to continuously monitor flammable gases and vapors. With its stainless steel SS 316L enclosure and drift-free optics, this detector is built for the harshest industrial environments, including offshore installations.

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# System Components



### Dräger Polytron® 7000

The Dräger Polytron® 7000 gas detector can satisfy all toxic gas and oxygen measurement applications on a single platform. It meets compliance requirements, as well as the high specification requirements of customized solutions.



### Dräger Polytron® 8200 CAT

The Dräger Polytron® 8200 CAT is an advanced explosion proof transmitter for the detection of flammable gases in the lower explosion limit (LEL). It uses a catalytic bead DrägerSensor® Ex... DD, which will detect most flammable gases and vapors. Besides a 3 wire 4 to 20 mA analog output with relays, it also offers Modbus and Fieldbus protocols making it compatible with most control systems.



### Dräger Flame 5000

In today's industrial workplaces, flame detection is essential for protecting both people and facilities. The Dräger Flame 5000 is an explosion-proof flame detector based on advanced color imaging technology. Each detector operates as a standalone unit and incorporates an integrated closed circuit television (CCTV) system, digital signal processing, and software algorithms to process live video images and interpret the characteristics of a flame.

10077-0016

### Services



### **Dräger Service**

When your operation's safety equipment is backed by over 125 years of experience and supported by the same team that engineered it, you can rely on service and rental solutions that are tailored to meet your unique needs. With Dräger's safety solutions, you get complete peace of mind, budget security, and full-service support that you can count on every step of the way. That's the Dräger Service Advantage.

## Related Products



### Dräger REGARD® 3900

The Dräger REGARD® 3900 is a standalone control system for the detection of toxic gases, oxygen levels, and Ex hazards. The control system is fully configurable between 1 and 16 channels, depending upon the type and quantity of input/output boards installed.

Environmental conditions	Dräger REGARD® 7		Dashboard	
 Temperature	(without Dashboard 0 to 55 °C / 32 to 1		0 to 50 °C / 32 to 122 °F	
remperature		31 7		
	(during operation)	to 140 °E (in atoroga)	(during operation)	
L Calle	-40 to +65 °C / -40 to 149 °F (in storage)  5 to 95% RH, non-condensing		-20 to +60 °C / -4 to 140 °F (in storage	
Humidity	5 to 95% RH, non-c	condensing	20 to 90% RH, non-condensing	
			(during operation) 5 to 90% RH, non-condensing	
			(in storage)	
Pressure	700 to 1,300 hPa		700 to 1,300 hPa	
Height	max. 2,000 m (6,561 ft) above sea level		max. 3,000 m (9,842 ft) above sea lev	
Tolgin		ay Module 240 V AC)	max. 5,000 m (9,042 m) above sea leve	
		ay Module 2 to 1710)		
System reaction times				
Fransmission of measurement values	and status information in	typically 1 s		
Dräger REGARD® 7000		max. 3.3 s		
Setting times				
20		< 3 s		
50		< 3 s		
90		< 3 s		
The setting times are independent of	the sample gas.			
Time to measurement readiness				
Time to measurement readiness  After switching on the Dräger REGAI	RD® 7000	< 30 s		
Time to measurement readiness  After switching on the Dräger REGAI	RD® 7000	< 30 s		
	RD® 7000	< 30 s		
After switching on the Dräger REGAI		< 30 s		
After switching on the Dräger REGAI				
After switching on the Dräger REGAL  Dräger REGARD® 7000 Advanced D  Operating voltage	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D	//) DC		
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D	V) DC	(H x W x D)	
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw  Dimensions	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D	//) DC	(H x W x D)	
After switching on the Dräger REGAR  Dräger REGARD® 7000 Advanced D  Dperating voltage  Current draw  Dimensions  Weight	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 266 x 483 x 68 mm 3,800 g / 8.16 lbs	//) DC	(H x W x D)	
After switching on the Dräger REGAR  Dräger REGARD® 7000 Advanced D  Derating voltage  Current draw  Dimensions  Weight  Dräger REGARD® 7000 Advanced D	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 266 x 483 x 68 mm 3,800 g / 8.16 lbs 24 V (19.2 to 28.8 V	/) DC DC / 10.47 x 19.02 x 2.68" /) DC	(H x W x D)	
After switching on the Dräger REGAR  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw  Dimensions  Weight  Dräger REGARD® 7000 Advanced D  Operating voltage	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 266 x 483 x 68 mm 3,800 g / 8.16 lbs 24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D	/) DC DC / 10.47 x 19.02 x 2.68" /) DC		
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw  Dimensions  Weight  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 266 x 483 x 68 mm 3,800 g / 8.16 lbs 24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D	/) DC DC / 10.47 x 19.02 x 2.68" /) DC		
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw  Dimensions  Weight  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw  Dimensions	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 266 x 483 x 68 mm 3,800 g / 8.16 lbs 24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D	/) DC DC / 10.47 x 19.02 x 2.68" /) DC		
After switching on the Dräger REGAR  Dräger REGARD® 7000 Advanced D  Derating voltage  Current draw  Dimensions  Weight  Dräger REGARD® 7000 Advanced D  Derating voltage  Current draw  Dimensions  Weight  Meight	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 266 x 483 x 68 mm 3,800 g / 8.16 lbs 24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 286 x 347 x 68 mm 3,700 g / 8.16 lbs	/) DC DC / 10.47 x 19.02 x 2.68" /) DC		
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D Derating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Advanced D Derating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Dockingstat	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 266 x 483 x 68 mm 3,800 g / 8.16 lbs 24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 286 x 347 x 68 mm 3,700 g / 8.16 lbs	/) DC DC / 10.47 x 19.02 x 2.68" /) DC	(H x W x D)	
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D Dperating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Advanced D Dperating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Dockingstat Ferminal clamps	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 266 x 483 x 68 mm 3,800 g / 8.16 lbs 24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V D 286 x 347 x 68 mm 3,700 g / 8.16 lbs	/) DC OC / 10.47 x 19.02 x 2.68" //) DC OC / 11.26 x 13.66 x 2.68" (	(H x W x D)	
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D Dperating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Advanced D Dperating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Dockingstat Ferminal clamps Dperating voltage	24 V (19.2 to 28.8 V  Typ. 1.0 A at 24 V E  266 x 483 x 68 mm  3,800 g / 8.16 lbs  24 V (19.2 to 28.8 V  Typ. 1.0 A at 24 V E  286 x 347 x 68 mm  3,700 g / 8.16 lbs  tion 8-slot  Plug-in contacts for	/) DC OC / 10.47 x 19.02 x 2.68" //) DC OC / 11.26 x 13.66 x 2.68" (	(H x W x D)	
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D Dperating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Advanced D Dperating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Dockingstat Ferminal clamps Dperating voltage	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V E 266 x 483 x 68 mm 3,800 g / 8.16 lbs 24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V E 286 x 347 x 68 mm 3,700 g / 8.16 lbs tion 8-slot Plug-in contacts for 24 V (18 to 30 V) D Max. 22 A	/) DC OC / 10.47 x 19.02 x 2.68" /) DC OC / 11.26 x 13.66 x 2.68" (  wire cross sections of C	(H x W x D)	
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D Dperating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Advanced D Dperating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Dockingstat Ferminal clamps Dperating voltage Current draw:	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V E 266 x 483 x 68 mm 3,800 g / 8.16 lbs 24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V E 286 x 347 x 68 mm 3,700 g / 8.16 lbs tion 8-slot Plug-in contacts for 24 V (18 to 30 V) D Max. 22 A	/) DC OC / 10.47 x 19.02 x 2.68" /) DC OC / 11.26 x 13.66 x 2.68" (  wire cross sections of C	D.08 to 2.5 mm <sup>2</sup>	
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D Dperating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Advanced D Dperating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Dockingstat  Ferminal clamps Dperating voltage Current draw:  Power loss	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V C 266 x 483 x 68 mm 3,800 g / 8.16 lbs  24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V C 286 x 347 x 68 mm 3,700 g / 8.16 lbs  286 x 347 x 68 mm 3,700 g / 8.16 lbs  24 V (18 to 30 V) D Max. 22 A (independent of the Max. 15 W at 24 V	/) DC OC / 10.47 x 19.02 x 2.68" /) DC OC / 11.26 x 13.66 x 2.68" (  wire cross sections of C	D.08 to 2.5 mm <sup>2</sup> dules and connected transmitters)	
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw  Dimensions  Weight  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw  Dimensions  Weight  Dräger REGARD® 7000 Dockingstat  Terminal clamps  Operating voltage  Current draw:  Power loss	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V C 266 x 483 x 68 mm 3,800 g / 8.16 lbs  24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V C 286 x 347 x 68 mm 3,700 g / 8.16 lbs  286 x 347 x 68 mm 3,700 g / 8.16 lbs  24 V (18 to 30 V) D Max. 22 A (independent of the Max. 15 W at 24 V C Min. 3.3 V, 10 mA,	/) DC OC / 10.47 x 19.02 x 2.68" /) DC OC / 11.26 x 13.66 x 2.68" (  wire cross sections of C	D.08 to 2.5 mm <sup>2</sup> dules and connected transmitters)	
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D Derating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Advanced D Derating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Dockingstat Ferminal clamps Derating voltage Current draw:  Dever loss  SFR output	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V C 266 x 483 x 68 mm 3,800 g / 8.16 lbs  24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V C 286 x 347 x 68 mm 3,700 g / 8.16 lbs  286 x 347 x 68 mm 3,700 g / 8.16 lbs  24 V (18 to 30 V) D Max. 22 A (independent of the Max. 15 W at 24 V C Min. 3.3 V, 10 mA, the SFR output must	/) DC DC / 10.47 x 19.02 x 2.68"  /) DC DC / 11.26 x 13.66 x 2.68" ( wire cross sections of C r number of installed mo	D.08 to 2.5 mm <sup>2</sup> dules and connected transmitters)  g capacity; overload	
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw  Dimensions  Weight  Dräger REGARD® 7000 Advanced D  Operating voltage  Current draw  Dimensions  Weight  Dräger REGARD® 7000 Dockingstat  Terminal clamps  Operating voltage  Current draw:  Power loss  SFR output	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V C 266 x 483 x 68 mm 3,800 g / 8.16 lbs  24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V C 286 x 347 x 68 mm 3,700 g / 8.16 lbs  286 x 347 x 68 mm 3,700 g / 8.16 lbs  286 x 347 x 68 mm 3,700 g / 8.16 lbs  4 V (18 to 30 V) D Max. 22 A (independent of the Max. 15 W at 24 V Min. 3.3 V, 10 mA, the SFR output mus Min. 3.3 V, 10 mA,	// DC DC // 10.47 x 19.02 x 2.68"  // DC DC // 11.26 x 13.66 x 2.68" ( wire cross sections of C r number of installed mo max. 30 V, 2 A switching the protected against c	D.08 to 2.5 mm <sup>2</sup> dules and connected transmitters)  g capacity;  overload g capacity;	
After switching on the Dräger REGAI  Dräger REGARD® 7000 Advanced D Derating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Advanced D Derating voltage Current draw Dimensions  Weight  Dräger REGARD® 7000 Dockingstat Ferminal clamps Derating voltage Current draw:  Dräger REGARD® 7000 Dockingstat Ferminal clamps Derating voltage Current draw:  Power loss BFR output	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V C 266 x 483 x 68 mm 3,800 g / 8.16 lbs  24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V C 286 x 347 x 68 mm 3,700 g / 8.16 lbs  286 x 347 x 68 mm 3,700 g / 8.16 lbs  tion 8-slot  Plug-in contacts for 24 V (18 to 30 V) D Max. 22 A (independent of the Max. 15 W at 24 V Min. 3.3 V, 10 mA, the SFR output mus Min. 3.3 V, 10 mA, the SSR output mus	/) DC DC / 10.47 x 19.02 x 2.68" // DC DC / 11.26 x 13.66 x 2.68" ( wire cross sections of C c number of installed mo max. 30 V, 2 A switching the protected against c max. 30 V, 2 A switching	D.08 to 2.5 mm <sup>2</sup> dules and connected transmitters)  g capacity;  overload g capacity;	
	24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V E 266 x 483 x 68 mm 3,800 g / 8.16 lbs  24 V (19.2 to 28.8 V Typ. 1.0 A at 24 V E 286 x 347 x 68 mm 3,700 g / 8.16 lbs  tion 8-slot  Plug-in contacts for 24 V (18 to 30 V) D Max. 22 A (independent of the Max. 15 W at 24 V Min. 3.3 V, 10 mA, in the SFR output mus tion Max. 8	/) DC DC / 10.47 x 19.02 x 2.68" // DC DC / 11.26 x 13.66 x 2.68" ( wire cross sections of C c number of installed mo max. 30 V, 2 A switching the protected against c max. 30 V, 2 A switching	D.08 to 2.5 mm <sup>2</sup> dules and connected transmitters)  g capacity; overload g capacity; overload	

Dräger REGARD	° 7000 4-20	mA Input Module
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Number of input channels	Max. 8	
Operating voltage	24 V (18 to 30 V) through docking station	
Transmitter supply voltage	Typically 24 V,	
	depending on the supply voltage of the docking station	
Transmitter supply current	Max. 500 mA per channel, with max. 4 inputs occupied	
	Max. 250 mA per channel, with 4 to 8 inputs occupied	
	Total transmitter supply current max. 2 A	
Voltage range for signal input	0 to 24 mA (short-circuit detection at 38 mA)	
Measurement precision	± 0.05 mA ± 0.002 mA/K (0 to 4 mA)	
	$\pm 1.25\% \pm 0.05\%/K$ (4 to 24 mA)	
Current draw	Max. 2.1 A	
Power loss	Max. 5 W at 24 V	
Terminal block	24-pin, DC	
Dimensions	110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)	
Weight	265 g / 0.58 lbs	
Dräger REGARD® 7000 4-20 mA Inp	put Module c/w HART°	
Number of input channels	Mov O	

Number of input channels	Max. 8	
Operating voltage	24 V (18 to 30 V) through docking station	
Transmitter supply voltage	Typically 24 V,	
	depending on the supply voltage of the docking station	
Transmitter supply current	Max. 500 mA per channel, with max. 4 inputs occupied	
	Max. 250 mA per channel, with 4 to 8 inputs occupied	
	Total transmitter supply current max. 2 A	
Voltage range for signal input	0 to 24 mA (short-circuit detection at 38 mA)	
Measurement precision	± 0.05 mA ± 0.002 mA/K (0 to 4 mA)	
	± 1.25% ± 0.05%/K (4 to 24 mA)	
Current draw	Max. 2.1 A	
Power loss	Max. 5 W at 24 V	
Terminal block	24-pin, DC	
Dimensions	110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)	
Weight	265 g / 0.58 lbs	

### Dräger REGARD® 7000 Digital Input Module

Number of input channels	Max. 8	
Operating voltage	24 V (18 to 30 V) through docking station	
Channel output voltage	Typically 24 V,	
	depending on the supply voltage of the docking station	
Supply current of the connected input	Max. 400 mA per channel, with max. 4 inputs occupied	
elements	Max. 250 mA per channel, with 4 to 8 inputs occupied	
	Total supply current max. 2 A	
Standby current through EOL resistance	Configurable to 0 mA (line break detection switched off)	
	and in the range of 5 to 400 mA	
Switching threshold	Configurable in the range of 3 to 400 mA	
Current draw	Max. 2.1 A	
Power loss	Max. 5 W at 24 V	
Terminal block	16-pin, DC	
Dimensions	110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)	
Weight	265 g / 0.58 lbs	

Weight

Number of channels	1 channel, bidirectional;
	One gateway module always occupies one port in the overall system
Modbus RTU gateway and gateway module supply voltage	24 V (18 to 30 V) DC
Gateway module current draw	Typ. 160 mA at 24 V
Gateway module power loss	Max. 4 W at 24 V
Modbus RTU gateway current draw	Typ. 80 mA at 24 V
Modbus RTU gateway power loss	Max. 2.5 W at 24 V
Transmission rate	Adjustable 9,600 to 921,600 baud
Cable length between Dräger	Max. 5 m
REGARD® 7000 Gateway O/P and Dräger REGARD® 7000 Modbus RTU Gateway	
Cable type	STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD
Cable length RS-485 side	<57,600 baud max. 1,200 m
-	<230,400 baud max. 500 m
	<921,600 baud max. 120 m
Terminal block	2-pin
Dimensions	110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)
Weight	265 g / 0.58 lbs
Dräger REGARD® 7000 Modbus RTU Gate	way
<u>-</u>	way 116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)
Dräger REGARD® 7000 Modbus RTU Gater Dimensions Weight	·
Dimensions Weight	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)
Dimensions Weight Dräger REGARD® 7000 Bridge Module	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D) 130 g / 0.29 lbs
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D) 130 g / 0.29 lbs  Typ. 160 mA at 24 V
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D) 130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V
Dimensions	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D) 130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V 1 channel, bidirectional;
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D) 130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D) 130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system 4,800 baud
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D) 130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system 4,800 baud  Max. 100 m
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system 4,800 baud  Max. 100 m  STP (shielded twisted pair),
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D) 130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V 1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system 4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block	Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system 4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD 2-pin
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block Dimensions	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system 4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD  2-pin  110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system  4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD  2-pin  110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)  265 g / 0.58 lbs
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block Dimensions Weight  Dräger REGARD® 7000 Relay Module 240	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system  4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD  2-pin  110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)  265 g / 0.58 lbs
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block Dimensions Weight  Dräger REGARD® 7000 Relay Module 240 Number of output relays	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system 4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD 2-pin  110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)  265 g / 0.58 lbs  V AC/240 V AC complex 8, each with one potential-free changeover
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block Dimensions Weight	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system 4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD  2-pin  110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)  265 g / 0.58 lbs  V AC/240 V AC complex
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block Dimensions Weight  Dräger REGARD® 7000 Relay Module 240 Number of output relays Switching voltage Switching current	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system  4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD  2-pin  110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)  265 g / 0.58 lbs  V AC/240 V AC complex  8, each with one potential-free changeover  110 to 240 V AC  10 mA to 2 A; cosine phi ≥ 0.4
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block Dimensions Weight  Dräger REGARD® 7000 Relay Module 240 Number of output relays Switching voltage	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system 4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD  2-pin  110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)  265 g / 0.58 lbs  V AC/240 V AC complex  8, each with one potential-free changeover  110 to 240 V AC
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block Dimensions Weight  Dräger REGARD® 7000 Relay Module 240 Number of output relays Switching voltage Switching current	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system  4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD  2-pin  110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)  265 g / 0.58 lbs  V AC/240 V AC complex  8, each with one potential-free changeover  110 to 240 V AC  10 mA to 2 A; cosine phi ≥ 0.4  Max. 100 mA (no relays activated)
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block Dimensions Weight  Dräger REGARD® 7000 Relay Module 240 Number of output relays Switching voltage Switching current Power consumption	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system  4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD  2-pin  110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)  265 g / 0.58 lbs  V AC/240 V AC complex  8, each with one potential-free changeover  110 to 240 V AC  10 mA to 2 A; cosine phi ≥ 0.4  Max. 100 mA (no relays activated)  Max. 200 mA (8 relays activated)
Dimensions Weight  Dräger REGARD® 7000 Bridge Module Current draw Power loss Number of channels  Transmission rate Cable length Cable type  Terminal block Dimensions Weight  Dräger REGARD® 7000 Relay Module 240 Number of output relays Switching voltage Switching current Power consumption  Power loss	116 x 23 x 115 mm / 4.57 x 0.91 x 4.53" (H x W x D)  130 g / 0.29 lbs  Typ. 160 mA at 24 V  Max. 4 W at 24 V  1 channel, bidirectional; One bridge module always occupies 99 ports in the overall system 4,800 baud  Max. 100 m  STP (shielded twisted pair), e.g. LAPP Unitronic® Bus LD  2-pin  110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)  265 g / 0.58 lbs  V AC/240 V AC complex  8, each with one potential-free changeover  110 to 240 V AC  10 mA to 2 A; cosine phi ≥ 0.4  Max. 100 mA (no relays activated)  Max. 5 W at 24 V

340 g / 0.75 lbs

Dräger REGARD®	7000 Relay	Module 24 V	DC/24 V	DC complex

Number of autout value	·	
Number of output relays	8, each with one switch contact	
Switching voltage	3.3 to 24 V DC	
Switching current	10 mA to 2 A	
Power consumption	Max. 100 mA (no relays activated)	
	Max. 200 mA (8 relays activated)	
Power loss	5 W at 24 V	
Update rate of switch outputs	0.5 s	
Terminal block	24-pin, 24 V	
Dimensions	110 x 46 x 130 mm / 4.33 x 1.81 x 5.12" (H x W x D)	
Weight	340 g / 0.75 lbs	
Dräger REGARD® 7000 Slotcover		
Dimensions	110 x 46 x 85 mm / 4.33 x 1.81 x 3.35" (H x W x D)	
Weight	115 g / 0.25 lbs	
Dräger REGARD® 7000 Terminal Bl	lock	
Dimensions	69 x 44 x 44 mm / 2.72 x 1.73 x 1.73" (H x W x D)	
Weight	53 g / 0.12 lbs	
Dräger REGARD® 7000 Ethernet to	DSL Converter	
Dimensions	99 x 35 x 115 mm / 3.9 x 1.38 x 4.53" (H x W x D)	
Weight	185 g / 0.41 lbs	
Dräger REGARD® 7000 Long Distar	nce Gateway	
Supply voltage	24 V (18 to 30 V) DC	
Long distance gateway port	Typ. 4 mA at 24 V	
current draw		
Long distance gateway port	Max. <0.1 W at 24 V	
power loss		
Converter current draw	Typ.<180 mA per converter at 24 V	
Converter power loss	Max. 5 W at 24 V per converter	
Transmission rate	5 MBit/s	
Galvanic isolation	Ethernet to DSL	
Transmission distance	Up to 3,000 m (9,843 ft), depending on wire cross-section and interference factors	
Dimensions	110 x 46 x 85 mm / 4.33 x 1.81 x 5.12" (H x W x D)	
Weight	115 g / 0.25 lbs	
Approvals		
ATEX	Ex II(1)GD	
SIL	SIL 2	
CE-marking	ATEX Directive (2014/34/EU)	
	Electromagnetic Compatibility (2014/30/EU)	
	Low Voltage Directive (2014/35/EU)	
HART® is a registered trademark of t	the HART® Communication Foundation	
Unitronic® is a registered trademark	of Lapp GmbH	

# Ordering Information

Dräger REGARD® 7000 Advanced Dashboard 6HE	83 23 821
Dräger REGARD® 7000 Advanced Dashboard TM	83 22 345

# Ordering Information

83 22 286
83 24 001
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83 24 016
83 24 020
83 24 871
83 24 017
83 27 250
83 24 872
83 23 815

Notes

Notes

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