Optolevel® GateWay



Optolevel® GateWay is a *liquid level monitoring system* for fuel transportation in tank trucks and rail cars to prevent overfills and accidents in delivery and to protect the environment from pollution as well as to eliminate all human errors.

GateWay has been designed and manufactured to be a versatile system. It can be easily configured to suit any fuel transport company's requirement in loading, unloading and load transfer. GateWay can be installed into all tank trucks and rail cars with pneumatic bottom valves.

Technical Specification

Enclosure		Connections	
Dimensions (H x W x D)	190 x 190 x 130 mm	CAN bus	1
Weight	1,90 Kg	Sensor or Switch Sockets	24
Material	Polycarbonate	Thermal Sockets 3 for loading	
Electrical Specifications			3 for loading
Power Supply	$U_n = 24 V DC$ $U_{min} = 17 V DC$ $U_{max} = 32 V DC$ $I_{max} = 1,5 A$	Delivery Overfill Amplifiers	3 for loading
		Solenoid Valve Controls	11
Ambient Conditions		Serial connection for	1 (RS232)
Operating	-40°C < T _a < 50°C	configuration	
Temperature		Optical socket	1 for loading
Relative Humidity	20 - 80 % (non-condensing)		
Certificate		Switches	5 internal, fixed functionality
ATEX	VTT 08 ATEX 035X II 2(1)G Ex emb [ia] IIB T3 GB	24 Volt iCurrent Sockets (Intrinsically safe)	4 (each156 mA max)



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Ordering Information

GateWay ordering system is online through Optolevel web page: <u>www.optolevel.fi</u> The set of features can be selected according to the requirements of the individual vehicle.

0.1/ /0.7					
GW 10.7	Level Monitoring System				
Standard Features	Opt	Optional Features			
 Total of 24 individually configurabl for optical sensor (**) (***) or for s 5-wire optical socket connection so loading (EN13922) Overfill Prevention (OFP) loading 4 Connections for 3 thermic OFP s loading Configurable with computer througe use, free computer software (***) 11 Solenoid Valve Control outputs configurable to different uses Loading options for additional con- features (input for e.g. external "S switch) * as mandated by EU Parliament and Counci 94/63/EC * the sensors and switches share the socket so the maximum use of one will eliminate t *** allows incorporation of different types of lo standards (E.g. Swedish double safety) OFP = Overfill Prevention ROFP = Retain Overfill Prevention ECC = Empty Compartment Control 	e connections 1. witch input (**) 2. ervice for 3. & unloading 4. ervices for 5. th easy to 6. , which are all figurable 7. Start loading" 8. <i>Directive</i> 9. <i>connections</i> 10. <i>he other</i> 9. <i>connections</i> 10. <i>fully</i> 12. 13. 14.	Retain Overfill Prevention Vehicle Grounding guard Controlled manual overrisertain conditions during Empty Compartment Co Capability to program free OFP and ROFP 3 amplifiers for unloadin with bypass socket reco valve Controls and Groun (EN13616) CAN-interface for all the (e.g. event logs, system External Solenoid Valve To CAN-bus External Solenoid Valve To CAN-bus External Solenoid Valve To CAN-bus for 16 controls Configurable delay of so oppe line pressure shock Free configuration of the (CAN-bus) control of the LED -indicators freely co Functions (AND, NAND, creation of controls and Advanced logical function ogic)	ding* ide of faulty sensor under g loading ontrol (ECC) eely the sensor locations for g overfill thermistor sensors gnition, dedicated. Solenoid unding Wire verification e events in the system surveillance) Terminal Control through Terminal Control through plenoid valves for preventing a in abnormal situations e internal and external e solenoid valves onfigurable , OR, NOR) for unrestricted indication signals ons (8 x customizable group ditional security for loading ne brakes are on)		



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