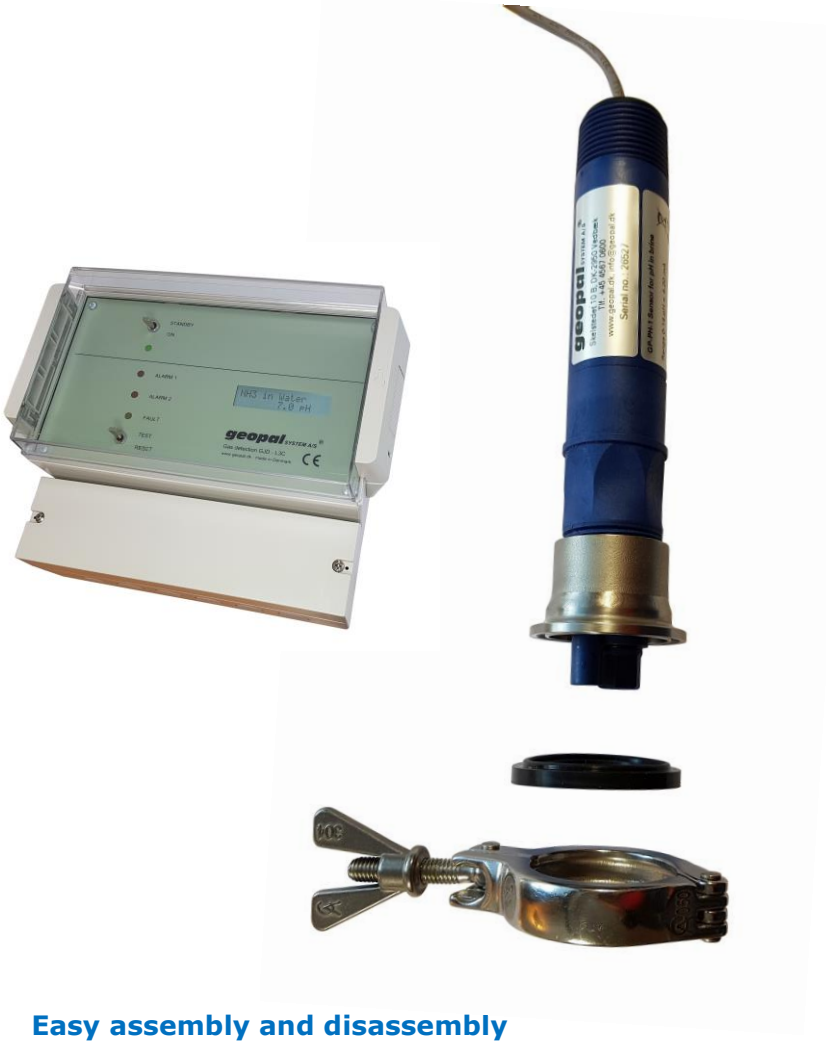
Geopal GP-PH-1
NH3 in liquids



Easy assembly and disassembly

The GP-PH-1 probe has a 2” clamp connection, to ensure a quick and simple service.

Using the 1“ thread it will be necessary to disconnect the cable before unscrewing/screwing the probe. The cable must be connected while performing a calibration and when the probe is seated back in the pipe.

The stainless steel pipe, also have a vent connection to ensure air can be vented out after installation.

The Geopal GP-PH-1 probe is designed for ammonia leak detection from the secondary side of the refrigerant system.

GP-PH-1 can be used in water, brine, ethylene etc.

Geopal GP-PH-1 probe offers superior performance under conditions that often forces conventional pH probes to fail.

GP-PH-1 can be connected directly to a PLC (2 wire 4-20 mA).
The PLC must provide 24 VDC supply and be able to perform a calibration function (zero and span).

Alternatively, the probe can be connected directly to Geopal alarm monitor GJD-L3C.

The calibration procedure offered by the GJD-L3C can be carried out by one person in less than 10 minutes, using a simple push-button system with associated light indicators.

Calibration requires no special tools or equipment, only two different pH solutions that can be used as zero and span point.

Please see separate data sheet for monitor GJD-L3C.

Comply with EN 378:2016 regulations.

geopal SYSTEM A/S®
Skelstedet 10B - DK-2950 Vedbæk, Danmark
Tel, +45 45 67 06 00
www.geopal.dk · info@geopal.dk
EA 80001EE

DIC444QMS DBI reg.no. 233.301 SP14ATEX7159

Technical Data

GP-PH-1	
Supply voltage	24 VDC
Range	0-14 pH
Maximum flowrate	3 m/s
Response time T90	< 60 seconds
Sensativity	0,01 pH
Accuracy	+/- 0,02 pH
Probe without monitor	2 wire 4-20 mA, max. load 450 Ω Cable 4,5 m
Materials wetted parts	Ryton (PPS), Caramic junction, glass electrode, viton, AISI 316
IP rating	IP 65 DIN 60529
Weight	0,5 kg
Dimensions	L: 190 mm ø 35 mm
Operating conditions	Temperature -5 °C to +90 °C Max Pressure 7 bar (higher pressure can damage probe)
Mounting connection	Clamping union 1,5" DN 30 PN10 Without clamp 1" NPT

GJD-L3C Alarm monitor	
Supply voltage	230 VAC, 110 VAC, 12 VDC, 24 VDC
Power consumption	10 W
Calibration	Easy press bottum calibration
Electrical output	4–20 mA max load 600Ω, fault = 2 mA, 0–5 V or 0–10 V
Relay contacts	2 relay outputs for alarm 1 and alarm 2 1 relay output for fault Signal contact 230 V/10 A
Cabinet	ABS/Polycarbonate
Front panel	Dull green, foil on aluminium
Indicators	Display, 16 characters x 2 lines Green LED operation Red LED for alarm Yellow LED for fault/standby Internal sounder
IP rating	IP 65 DIN 60529
Weight	1,3 kg
Mechanical dimensions	185x213x104.5 mm (LxWxD)
Operating temperature	-20 °C to +50 ºC
Certification	CE compliant and accordance with: EMC directive, 2004/108/EC MED directive 961981 IACS E10: 2006 IEC 60 945:2002 and Corrigendum 1: 2008, IEC 60 092-504:2001-03 IEC 60 533:1999-11
Safety	IEC 60 204-1: Electrical equipment of machines. IEC 61010-1: Safety requirements for electrical equipment for measurement, control and laboratory use. Low Voltage Directive 2006/95/EC (LVD)
Quality	ISO 9001:2015

geopal SYSTEM A/S®
Skelstedet 10B - DK-2950 Vedbæk, Danmark
Tel, +45 45 67 06 00
www.geopal.dk · info@geopal.dk
EA 80001EE

DIC444QMS DBI reg.no. 233.301 SP14ATEX7159