Communication module for dataloggers
GSM

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Technical Specifications

GSM Engine	Triband
GSM frequency bands	GSM 900 MHz, GSM 1800 MHz, GSM 1900 MHz (phase of 2/2+)
Transmission power	Class 4 (2 W) at EGSM900, class 1 (1W) at GSM 1800 and GSM 1900
SIM card	Supports 3 V SIM cards
Antenna	1 / 4λ stub antenna: 900 / 1800 MHz or 1900 MHz (Gain 0 / 0 dB), planar antenna: 900 / 1800 MHz (0 / 0 dB)
Transfer rate	9600 Baud

Housing	Aluminium AIMgSi1 chromated
Ports	Stainless steel (316L / 1.4404)
Antenna cover	Ertalyte Tx (PET), light gray
Antenna connector	FME (male)
Datalogger interface	RS485 for DL/N series 70, RS232 for DL/N series 64
Real time clock	Temperature-compensated quartz clock, deviation max. 30 s per year
Battery	3.6V lithium, size D (exchange by user), life time approx. 1.5 years at 4 online accesses per month
Operating temperature	-20...55°C

Communication and configuration

Configuration	2 activations (start and duration definable), active days selectable, 1 activation (00:00 clock, duration definable), daily active, Establish connection via direct call or via call back, Summer time switchover selectable, Administration of several GSM stations, Programming of groups of GSM stations
Data query of datalogger	Automatic data query and administration of datalogger groups, Auto startup
Access security	1 level with password protection
SMS to communication module	Setup of configuration and connection, acknowledgment of events and for the data query
SMS of communication module	Binary inputs, datalogger measured value at setpoints, periodical operation check
Data transmission rates	GSM communication module with PC GSM modem: approx. 36 s / 1000 measurements, GSM communication module with PC analog modem: approx. 21 s / 1000 measurements, Analog modem communication module with PC analog modem: approx. 8 s / 1000 measurements

System Requirements

PC	Processor: Min. 1 GHz Memory: Min. 200 MB RAM: Min. 1 GB
Operating System	Windows 2000 (Service Pack 4), XP (Service Pack 3/32-Bit), Vista (32-Bit), 7 (32-Bit)

Equipment

Overview

10.00.0091	Accessories overview

Additional documents

	Article number	Description
10.00.0152	DEB014	Operatings instructions

Operating and safety instructions

	Article number
10.00.0176	DMM014

Ordering information

		120.	XXXX.	XX99.	XX.	XXX
Type						
	Communication module	120				
Communication interface						
	GSM		0			
Datalogger interface						
	DL/N series 70		0			
Communication connection						
	Stub antenna 900/1800 MHz		00			
	Stub antenna 1900 MHz incl. PET protection cap, (Fig. 2)		01			
	External antenna, (Fig. 2), (1)		02			
	External antenna, (Fig. 1), (1)		03			
	Planar antenna 900/1800 MHz, attached loose, (Fig. 1)		04			
	Planar antenna 900/1800 MHz, installed in 2" cap, (Fig. 1), (2)		05			
	Planar antenna 900/1800 MHz, installed in 4" cap, (Fig. 1), (2)		06			
Inputs / outputs						
	Without			0		
Power supply						
	Internal battery			0		

(1) Antenna to be ordered separately (please refer to accessories)

(2) Available for installation in piezo tube only

Technical drawings
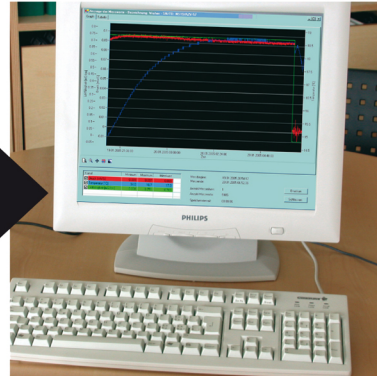
Easy and if desired, automatic data transmission to the office

Dimensions

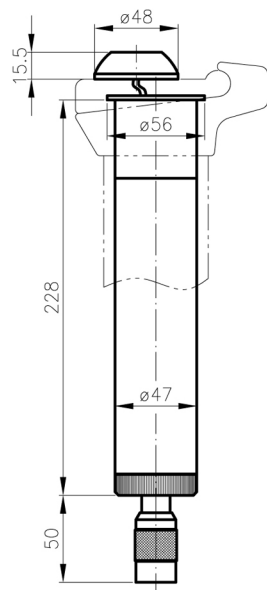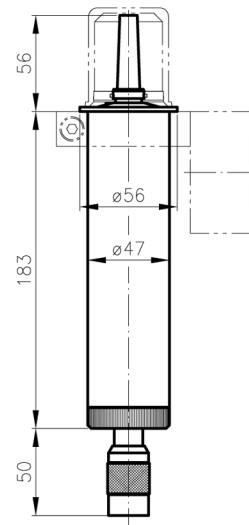Fig. 1: Communication module for installation in piezo tube

Fig. 2: Communication module for wall-/mast installation