

MALÅ ProEx System

GROUND PENETRATING RADAR

The most versatile GPR system on the market

A MALÅ ProEx System is a versatile full range ground penetrating radar system with features that no other ground penetrating radar system can match. The design and the technical features of the MALÅ ProEx Control Unit makes it the most versatile control unit on the market.

The MALÅ ProEx System is fully compatible with the broad range of MALÅ Ground Penetrating Radar Antennas and offers a flexible and versatile approach for GPR surveying, efficiently and in real-time. Apart from the interchangeable features of the MALÅ ProEx Control Unit makes the MALÅ ProEx System available as a single or dual-channel system in the basic configuration or a true multi-channel system with the optional expansion units.

MALÅ ProEx Control unit

Power supply	Li-Ion 12V battery
Operating time	5 h nominal, depending on configuration
Operating temperature	-20° to +50°C / 0° to 120 °F
Environmental	IP65
Dimensions	32.5 x 22.2 x 4.2 cm
Weight	1.9 kg
Antennas	MALÅ Antennas ranging from 30 MHz - 2.3 GHz
Pulse repetition freq.	100, 200 kHz, not interleaved
Data bits	16
Max Nr. of samples/trace	2048 (Standard), 8192 (Extended)
Nr. of stacks	1 - 32 768 and auto stacking
Samplings frequency	0.2 - >400 GHz
Signal stability	<70 ps
Communication interface	Ethernet
Communication speed	100 Mbit/s
Data transfer rate	Antenna dependent
Acquisition modes	Distance/time/manual
Wheel inputs	1 master, 1 for each High Frequency-unit



MALÅ XV Monitor

Power supply	Li-Ion 12V battery or other external source (9-18 V)
Operating time	5 h nominal (12V battery)
Operating temperature	-20° to +50°C
Environmental	IP65
Dimensions	32.6 x 21.5 x 5.2 cm (with protruding details 8.6 cm)
Weight	2.6 kg
Antennas	Compatible with full range of MALÅ Antennas from 30 MHz - 2.3 GHz ¹
Communications	Ethernet 100Mb/s
Display	Color backlit TFT LCD (640 x 480 pixels), trans-reflective

Note 1: Not compatible with MALÅ Borehole Antennas when operating in tomographic mode

MALÅ ProEx Modules

MALÅ ProEx Optical Module

The MALÅ ProEx Optical Module allows the connection of all MALÅ GPR antennas that utilize an optical interface. This includes MALÅ Shielded, Unshielded, RTA and Borehole antennas.

MALÅ ProEx High Frequency (HF) Module

The MALÅ ProEx High Frequency (HF) Module allows the connection of the MALÅ HF Antennas including those with EM-option.

MALÅ ProEx Coax Module

The MALÅ ProEx Coax Module allows the connection of deep MALÅ Borehole Antennas System utilizing winches. It also supports the MALÅ Separable Shielded Antennas with separable transmit and receive antenna elements.

Options ProEx

- ProEx Expansion Unit
- Backpack or Backpack soft
- Monitor/PC holder
- MALÅ RoadCart
- MALÅ Rough terrain cart (RTC)
- HipChain encoder
- Distance measuring wheel diameter (mm): 300 /150
- Measuring Wheel HF antennas
- MALÅ HF Cart (Large & Small)
- Extension handle for HF antennas
- Antenna Soft Sledge for 100-200MHz unshielded antennas
- Towing belt for RTA antennas
- Tripod with Mechanical Depth Encoder or Digital Depth Encoder for MALÅ Borehole antennas

MALÅ ProEx antennas

		MALÅ ProEx						
		Optical	Optical	Optical	Optical	Coax	HF	Coax
MODULES	ANTENNA ALTERNATIVES	Rough Terrain	Borehole	Unshielded	Shielded	Shielded separable	High Frequency	ProEx Array option
		30 MHz	100 MHz	30 MHz	100 MHz	200 MHz	1.2 GHz	200 MHz
		50 MHz	250 MHz	50 MHz	250 MHz	400 MHz	1.6 GHz	400 MHz
		100 MHz		100 MHz	500 MHz	1.3 GHz	2.3 GHz	1.3 GHz
			200 MHz	800 MHz				

ABEM | MALÅ *Part of the Guideline Geo success story*

Guideline Geo is a world-leader in geophysics and geo-technology offering sensors, software, services and support necessary to map and visualize the subsurface. Guideline Geo operates in four international market areas: Infrastructure – examination at start-up and maintenance of infrastructure, Environment – survey of environmental risks and geological hazards, Water – mapping and survey of water supplies and Minerals – efficient exploration. Our offices and regional partners serve clients in 121 countries. The Guideline Geo AB share (GGEO) is listed on NGM Equity.

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