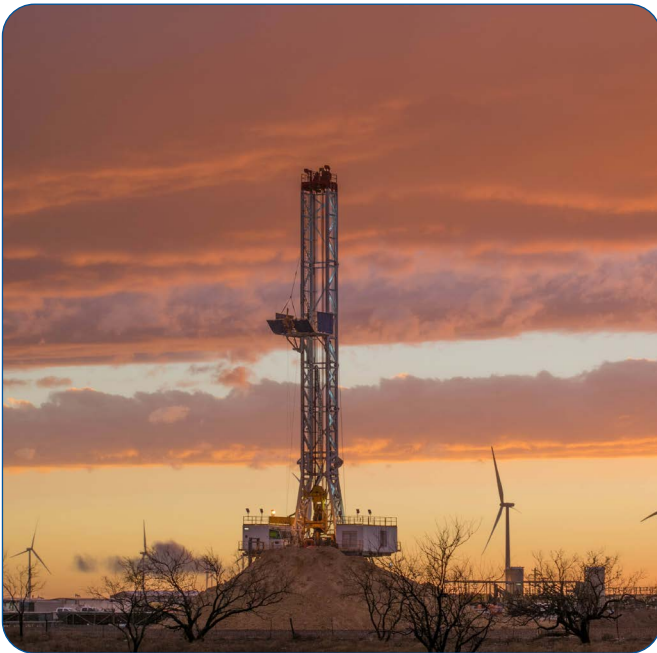


# RT-1

## Magnetic Susceptibility Meter





Magnetic susceptibility is a property that determines the amount of magnetism a rock can have in a given magnetic field.

Rocks are composed of minerals that vary in their magnetic susceptibility. Magnetite accounts for most of the susceptibility observed. The measurement of susceptibility can be used before magnetic surveys take place, to determine which rocks will be detectable magnetically and to what extent. This can be performed in the field, on outcrop, or on samples in the laboratory.

Magnetic susceptibility is also used after drilling, to measure drill-core to determine from what rock types and at what depths the observed magnetic responses have originated. Rocks and minerals have typical values of susceptibility. These values can also be related to the equivalent percentage volume of magnetite which would produce that value.

## RT-1 Magnetic Susceptibility Meter

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The RT-1 is a high sensitivity, portable, hand-held magnetic susceptibility meter with digital and analogue display. It can store over 9800 readings, and display immediate and stored readings as SI or CGS.

The unit is microprocessor (flash ROM) controlled, allowing flexibility in display, auto-ranging, and auto-calibration in free air.

The RT-1 has a bluetooth interface to transfer stored readings to a computer. The data outputs as an ASCII file and includes both the magnetic susceptibility reading and any event flags.

The RT-1 includes a built-in magnetic susceptibility test pad. This enables you to check calibration easily, anywhere and at any time.

## Features

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- Sensitivity down to  $1 \times 10^{-5}$
- Backlit LCD display for analogue and digital readings
- Memory capacity >9800 readings and flags
- Up to 50 hours of continuous use on one battery charge

## Typical Applications

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- Geological mapping in mineral & petroleum exploration industries
- Core logging via application of volumetric correction factor for drill-core
- Follow-up magnetic surveys
- Laboratory measurements

## What's in the Box

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- RT-1 Console with wrist strap
- Three alkaline AA batteries
- Operations Manual & Quick Start Guide
- 1GB USB with PDF manuals
- Bluetooth and software
- Mini-Phillips screwdriver
- Calibration certificate
- Magnetic susceptibility test pad
- Sturdy case with foam insert

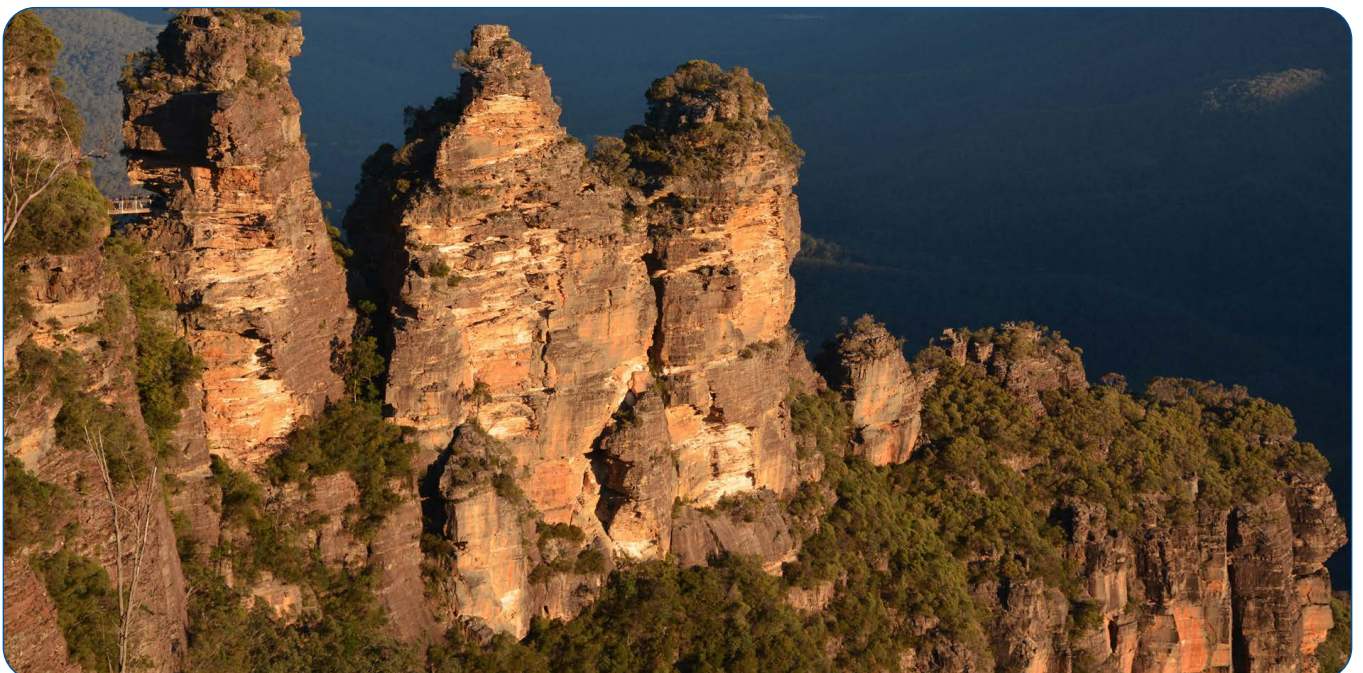


## Product Identification

Product name	Package	Range
RT-1	TBC	$1 \times 10^{-5}$ to 1 SI

## RT-1 Specifications

Performance	
Sensitivity	$1 \times 10^{-5}$
Operating range	$1 \times 10^{-5}$ to 1 SI
Units	SI or GCS
Operating frequency	750Hz
Response time	<1 second
Operating mode	Single or continuous readings
Memory	>9800 readings and flags
Audio output	Audio output on key touch. Selectable continuous audio indication or relative reading values.



Environmental	
Operating temperature range	0°C to +50°C
Storage temperature range	-40°C to +60°C
Environmental protection	IP65
Relative humidity	10 to 90% non condensing

Mechanical	
Dimensions (excl. cable) (W x H x L)	155 x 84 x 34mm
Weight (approximate)	350g
Enclosure material	TBC
Display type and rate	LCD with backlight (55 x 28mm), displaying analogue and digital readings
Coil type	Ferrite

Electrical	
Supply voltage	+4.5V DC TBC
Current consumption	TBD
Power source	3 x 1.5V AA alkaline batteries. Power down feature with auto shut-off. Low battery indicator.
Battery life	>50 hours' continuous use

Connectivity	
Data input/output	Bluetooth



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The specifications of the products described in this brochure are subject to change without prior notice.