

SRiD

Model: SRDM-PWS30C

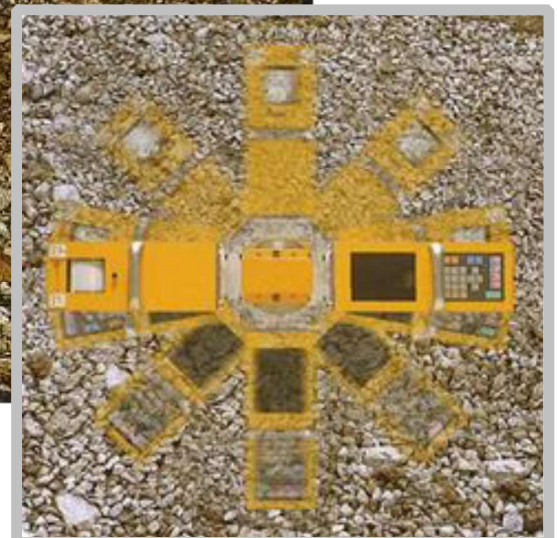
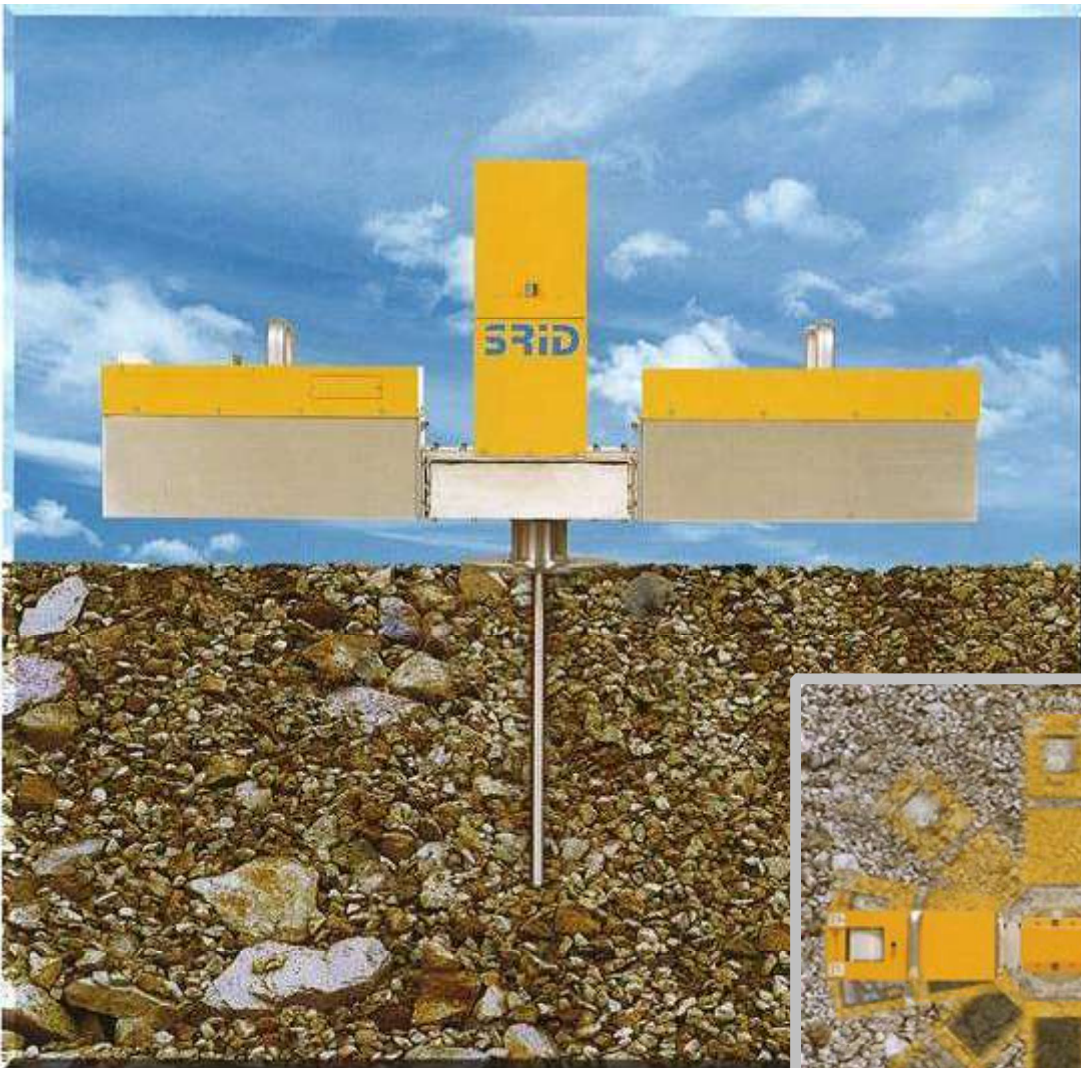
automated

Scanning Radio Isotope Density moisture meter for soil

Measure a large volume / No need to flatten ground surface

Registered in NETIS : No. KK-110061-VE

NETIS (New Technology Information System) is a database for sharing and providing information on new technologies developed by private enterprises operated by the Ministry of Land, Infrastructure and Transport of Japan.



Quick, Easy, of High Quality and Safe measurement. Ideal for measuring embankment of coarse-grained soil.

Scanning Radio Isotope (Nuclear) Density moisture meter (SRID) is an advanced nuclear density moisture meter for soil. SRID scans the ground surface condition with rotation (dia. 80cm) on a base plate when measuring density and moisture of soil. There is no need to flatten the ground surface before measurement, because measurement results are corrected automatically by scanned ground surface condition. SRID is not only the rotation of the main body (radiation detectors) but also the source position is a depth of 30cm, the measurement volume (like an invert cone shape) is much larger than the conventional nuclear density moisture meter. SRID can measure coarse-grained soil density and moisture that have been dependent on the conventional sand replacement method or the water replacement method.

And in addition, SRID is very easy to operate and the measurement time is only 2 minutes (including background radiation measurement for correcting).

On the other hand, the radiation dose is much smaller than the conventional nuclear density moisture meter, because SRID uses a low-level radiation source. It is much safer than other nuclear density moisture meters.

■ Features

- Easy operation and Quick measurement.
- Possible to measure coarse-grained soil.
- High quality result.
- Safer than other nuclear density moisture meters from radiation sources.

■ Specification

Method	Density: Transmitted Gamma ray
	Moisture: Transmitted Fast neutron ray
Depth	30cm or 20cm
Measuring time	2 min (including Back Ground measurement)
Scanning speed	1 rpm
Radiation source	⁶⁰ Co 2.59MBq (Density measurement) ²⁵² Cf 1.11MBq (Moisture measurement)
Detector	NaI Scintillation Counter (Density measurement)
	³ He proportional counter (Moisture measurement)
Display	Liquid crystal display (115×86mm)
Recorder	Dot impact printer Internal memory (Up to 300 points)
Temperature	0~50°C
Dimension	W860mm X D130mm X H410mm
Weight	19.5 kg (including Battery pack)

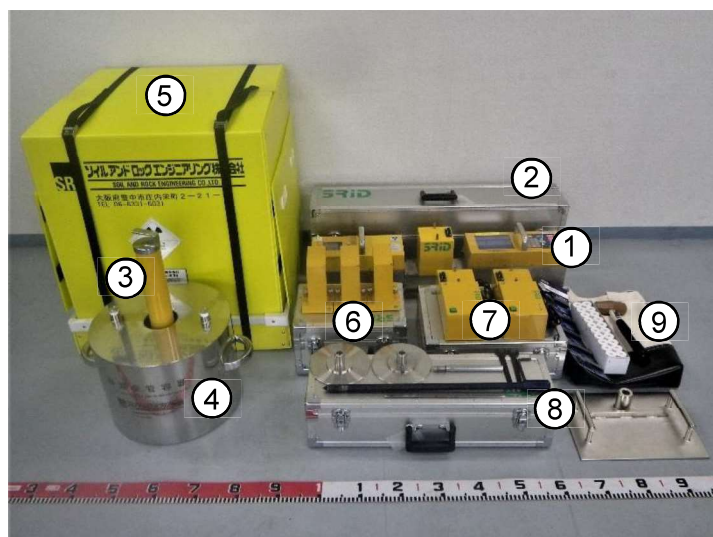
●The description of this leaflet is as of May 2018. ●Product specification may change.

●The color might differ because of the print.

For more information, quotations or just to say hello,
Please feel free to contact us.

■ Components

①	Instrument
②	Trunk Case
③	Radiation source rod (stored in container)
④	Shield case for radiation source rod
⑤	Container for transportation of Radiation source rod
⑥	Battery cassette (3 pieces) +Dedicated trunk
⑦	Battery charger (2 units) +Dedicated trunk
⑧	Accessories for measurement
⑨	Other accessories



SRE Soil and Rock Engineering Co., Ltd.

Head office : 2-21-1 Shonaisakaemachi, Toyonaka, Osaka, Japan 561-0834

Tokyo branch office : 3F No.3FK Bldg., 1-9-8 Iwamotocho, Chiyoda, Tokyo, Japan 101-0032

URL : <http://www.soilandrock.co.jp>

E-mail : sre@soilandrock.co.jp