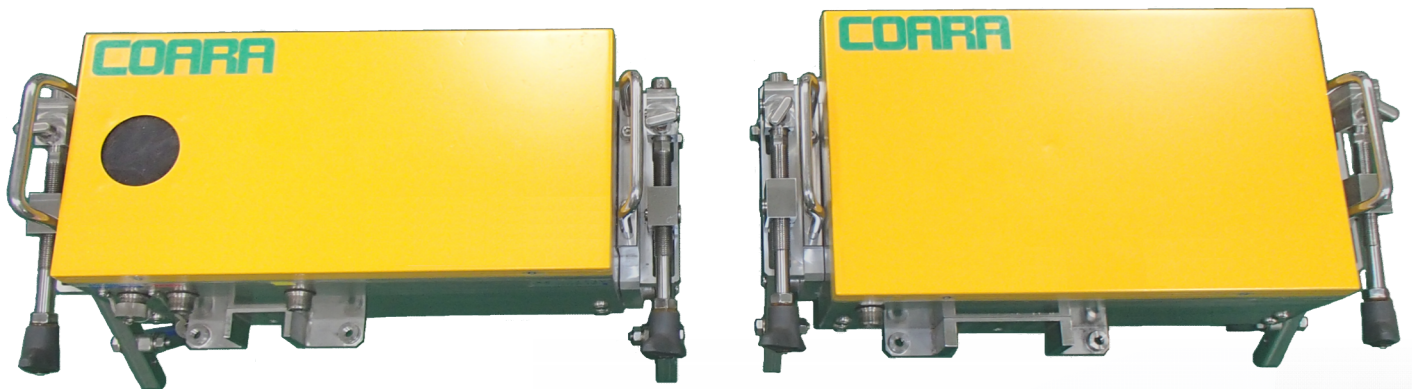


Continuous Radio-Isotope moisture meter for fresh concrete

# COARRA



**SRE** Soil and Rock Engineering Co.,Ltd.



# The only meter that can realize total inspection of unit water content for concrete to be cast

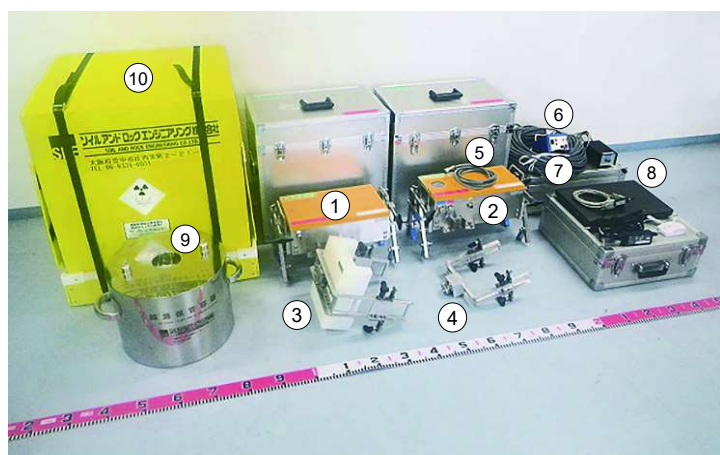
Continuous Radio-Isotope (Nuclear) moisture meter for fresh concrete (COARA) is a meter that can continuously measure unit water content for fresh concrete passing through the pumping pipeline and monitor real time measuring results.

COARA is set up on the pipeline of a concrete pumping truck, and measures unit water content, so non-destructive and non-contact measurement is achieved.

Unit water content of fresh concrete has an important effect on the strength of concrete. By using COARA, you can measure and monitor unit water for the whole content of concrete to be casted unlike the sampling method.



## ■ Components

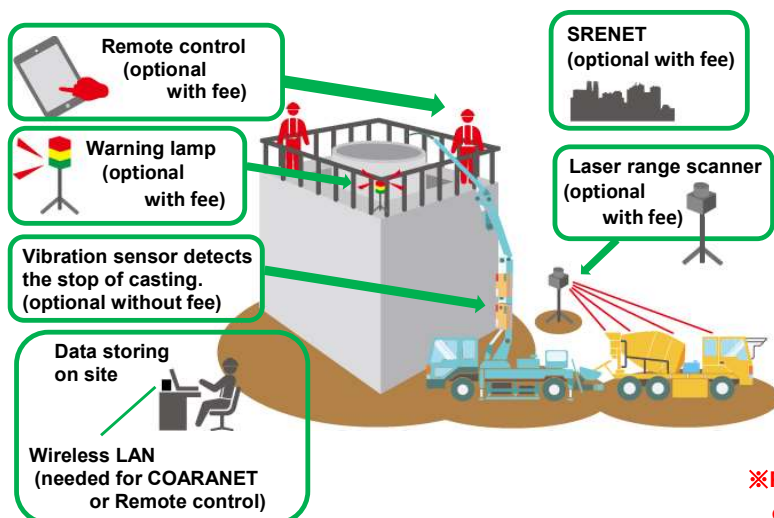


① Moisture meter (Detection unit)	⑥ Battery charger
② Density meter (Detection unit)	⑦ Cable for wired communication
③ Moisture meter (Radioactive source unit)	⑧ PC
④ Density meter (Radioactive source unit)	⑨ Shielding container of radiation source unit
⑤ Connecting cable of detection unit	⑩ Transportation packaging of radiation source unit

## ■ Specifications

Specifications		
Method	Moisture	Transmitted fast neutron ray
	Density	Transmitted Gamma ray
Range	Moisture	Unit water content : 100~250kg/m <sup>3</sup>
	Density	Bulk density : 1500~2500kg/m <sup>3</sup>
Pipe size	5inch (125A) , 6inch (150A)	
Radiation source	Moisture	<sup>252</sup> Cf , 1.11MBq
	Density	<sup>60</sup> Co , 2.59MBq
Detector	Moisture	<sup>3</sup> He proportional counter
	Density	Geiger-Mueller counter
Operating temperature	0 to 50°C (no condensation)	
Display / Recorder	PC (attached)	
Communication	Bluetooth Class1	
Power source	Internal battery	continuously available for up to 12 hours
Weight	Moisture	20kg
	Density	22kg
Dimensions	Moisture	520×270×430mm
	Density	520×230×430mm
Other	Built-in vibration sensor	

## ■ Options



The introduction of various options has achieved remote monitoring and automatization of measurement.

Laser range scanner	Automatically senses entering and leaving of an agitator truck.
Warning lamp	The alarm makes a sound and flashes at the moment of outlier detection.
Remote control	Able to control the measurement by a tablet.
SRENET	It can achieve monitoring of measurement data remotely.

※Please make sure to consult our company when you use these options because on-site circumstances and conditions of use may not allow you to use certain options.

●The content of this leaflet is as of October 2020. ●Product specifications may be subject to change. ●Colors may differ slightly due to printing functions.