SPECIFICATIONS

Recorder Unit								
Measuring system			Ultrasonic echo sensing system					
			Direct recording in two directions (X-X' or Y-Y')					
DM-604RR			Direct recording in four directions (X, X', Y, Y')					
DM-604RR-125			Direct recording in rour directions (A, A, Y, Y)					
Recording p	aper		Electrosensitive recording paper 250 mm x20 m A3-560 (DMP-250)					
Measuring	Range		0.5 m	1.0 m		2.0 m		4.0 m
range	Shift	0%	0 to 0.5 m	0 to 1.	0 m	0 to 2.0 m		0 to 4.0 m
(radius)		50%	0.25 to 0.75 m	0.5 to	1.5 m	1.0 to 3.0 m		2.0 to 6.0 m
		100%	0.5 to 1.0 m	1.0 to	2.0 m	2.0 to 4.0 m		4.0 to 8.0 m
Paper Constant speed			7.5 mm/min, 15 mm/min, 30 mm/min and 60 mm/min					
feed	Synchronized	1/40	25 mm/m of sensor	25 mm/m of sensor up/down movement				
rate	with	1/50	20 mm/m of sensor up/down movement					
	the depth	1/100	10 mm/m of sensor	up/dow	n movement			
		1/200	5 mm/m of sensor u	p/dowr	movement			
Measuring accuracy			±2% at full scale					
Depth mark			A depth mark is printed every 1 m and depth is automatically printed numerically every 5 m					
PC display and storage			Serial data output provided (RS-232C cable)					
Power supply protection circuit			Equipped with two built-in non-fuse breakers (2 A and 8 A), A leakage breaker (15 A), A overvoltage protection circuit					
Power supply			100 VAC, 50/60 Hz		110 VAC, 50/6	0 Hz	220 V	AC, 50/60 Hz
Power cons	umption		700 VA (At 100 VAC)		700 VA (At 110 VAC)		700 V/ (At 22)	A 0 VAC)

Operating temperature Winch IIni

WILLOW OTHE	
Up/down speed	0 to 20 m / min
	DM-602RR/604RR: 100 m maximum DM-604RR-125: 125 m maximum (150 m version is made to order)
Bottom and casing sensing system	Automatic sensing by limit switch
Operating temperature	-10°C to +50°C (14°F to 122°F)

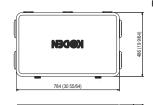
10°C to +50°C (14°F to 122°F)

Standard Configuration

Stariuaru Co	Jilliguration				
Recorder unit	DMR-602RR (DM-602RR)				
	DMR-604RR (DM-604RR)				
	DMR-604RR-125 (DM-604RR-125)				
Transformer unit	DMT-000R	For 100 VAC	9 kg		
(Built into	DMT-001R	For 110 VAC	9 kg		
Recorder unit)	DMT-002R	For 220 VAC	9 kg		
Winch unit	DMW-602RR (DM-602RR)	With a sensor unit and cable	125 kg		
	DMW-604RR (DM-604RR)	With a sensor unit and cable	125 kg		
	DMW-604RR-125 (DM-604RR-125)	With a sensor unit and cable	135 kg		
Connecting cable	CW-558R-10M	With 15-pin connectors	10 m		
	DMR-604RR-125 (DM-604RR-125)	With 8-pin connectors	10 m		
AC power cable	CW-71R-10M	With a 3-pin connector and one end plain	10 m		
Spare parts kit		Included in Recorder unit	1 set		
Operation manual		Contained in Recorder unit	1		
Brief operation card		Contained in Recorder unit	1		

Recording paper	DMP-250	250 mm x 20 m (A3-560)	2
Recording stylus	DMS-001	Contained in a plastic case	2
Current feed stylus	DMS-002	Contained in a plastic case	2

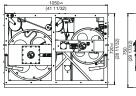
DIMENSIONS AND WEIGHT

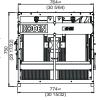


DMR-602RR (DM-602RR) DMR-604RR (DM-604RR) DMR-604RR-125 (DM-604RR-125)



Weight: 55 kg (121 lb) (for 100/110/220 VAC)





DMW-604RR-125 Weight: 135 kg (297 lb)

Winch unit 150m version has different dimensions and weigh

DMW-604RR Weight: 125 kg (276 lb)



To ensure proper and safe use of the equipment, please carefully



Kamata Tsukimura Bldg. 8F, 5-15-8 Kamata, Ota-ku, Tokyo, 144-0052 Japan Tel: +81-3-6715-9286 Fax: +81-3-6715-9287

Unit: mm (inch)

5278 Uenohara, Uenohara-shi, Yamanashi, 409-0112 Janan

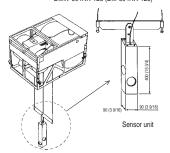
www.koden-electronics.co.jp

overseas@koden-electronics.co.jp

	DMR-604RR (DM-604RR)				
	DMR-604RR-125 (DM-604RR-125)				
Transformer unit	DMT-000R	For 100 VAC	9 kg		
(Built into	DMT-001R	For 110 VAC	9 kg		
Recorder unit)	DMT-002R	For 220 VAC	9 kg		
Winch unit	DMW-602RR (DM-602RR)	With a sensor unit and cable	125 kg		
	DMW-604RR (DM-604RR)	With a sensor unit and cable	125 kg		
	DMW-604RR-125 (DM-604RR-125)	With a sensor unit and cable	135 kg		
Connecting cable	CW-558R-10M	With 15-pin connectors	10 m		
	CW-600-10M	With 8-pin connectors	10 m		
AC power cable	CW-71R-10M	With a 3-pin connector and one end plain	10 m		
Spare parts kit		Included in Recorder unit	1 set		
Operation manual		Contained in Recorder unit	1		
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Spare Faits List					
Recording paper	DMP-250	250 mm x 20 m (A3-560)	2		
Recording stylus	DMS-001	Contained in a plastic case	2		
Current food etylue	DMS-002	Contained in a plactic case	-		

DMW-602RR (DM-602RR) DMW-604RR (DM-604RR) DMW-604RR-125 (DM-604RR-125)







. Design and specifications are subject to change without notice.





DM-602RR / 604RR / 604RR-125



The DM-602RR/604RR/604RR-125 helps improve the quality of a drilled hole and reduces working time and cost!

General

Recent progress and development in foundation engineering has resulted in great strides in excavation techniques. By using artificial slurry of high density and specific gravity, deeper excavation has been made possible. The DM-602RR/604RR-125 Drilling Monitor system has been developed in compliance with the user's needs arisen from therecent construction environment to accurately measure and record the shape of a drilled hole of greater depth. It canbe easily positioned and set up for measurement to provide quick and accurate recordings of excavations. The DM-602RR/604RR/604RR/504RR-125 Drilling Monitor provides the following advantages.

- Helps improve the quality of a drilled hole and reduces working time and cost.
- Provides on site records of the perpendicularity of drilled holes and the shape of cross sections in high accuracy.
- Provides numerical measurement data that can be easily imported into various Windows applications (Excel, Word, PowerPoint, etc.) for work reports, etc.

Features

- The DM-602RR/604RR/604RR-125 supplies clear records of a drilled hole even in slurry, heavily contaminated with dirt and sand.
- The DM-602RR/604RR/604RR-125 supplies clear and precise records thanks to its unique signal processing technique that discriminates wall echoes from the noise.
- The DM-602RR/604RR/604RR-125 has the facility to cancel the oscillation line echo that often prevents very close echo recordings.
- The sensor device is automatically controlled to stop at the casing and at the bottom of the hole.
 An emergency return function is also included.
- Depth range mark, depth mark, drilled hole mark, date, time, etc. can be printed on the recording paper.
- Limit switches are provided to avoid possible wire breakage or entanglement of the wire and cable.
- The recorded result can be output to an external PC via a built-in RS 232C output port.
- A non-fuse circuit breaker is used for circuit protection, eliminating the need for cumbersome fuse replacement at the construction site.

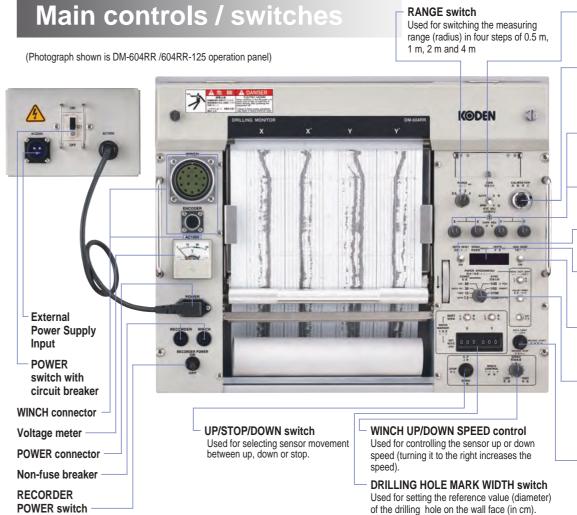


Winch set up above the borehole Recorder connected by a cable





DM used in the field



- GAIN switch

Used for switching the gain control method to AUTO or MANIJAI

- CALIBRATION control

Used for calibrating the distance between the sensor and the wall face to the actual measured distance

STC control (outer control) Used for adjusting or eliminating irregular reflections near the oscillation line.

GAIN control (inner control)
Used for adjusting the receiving

DEPTH RESET switch

Used to reset the depth record to 0 m.

SPEED/DEPTH display window

Used to display the speed and the depth of the sensor.

MANUAL MARK switch

As long as it is set to ON, the manual mark is recorded on the recording paper.

PAPER SPEED switch (MENU)

Used to change the paper speed in 4 steps in CONSTANT and PROPORTIONAL speed

DATA PRINT/RECORD START & STOP switch

Used to start and stop recording as well as print text data.

Recording Examples

