

SMART MAX GEOSYSTEMS

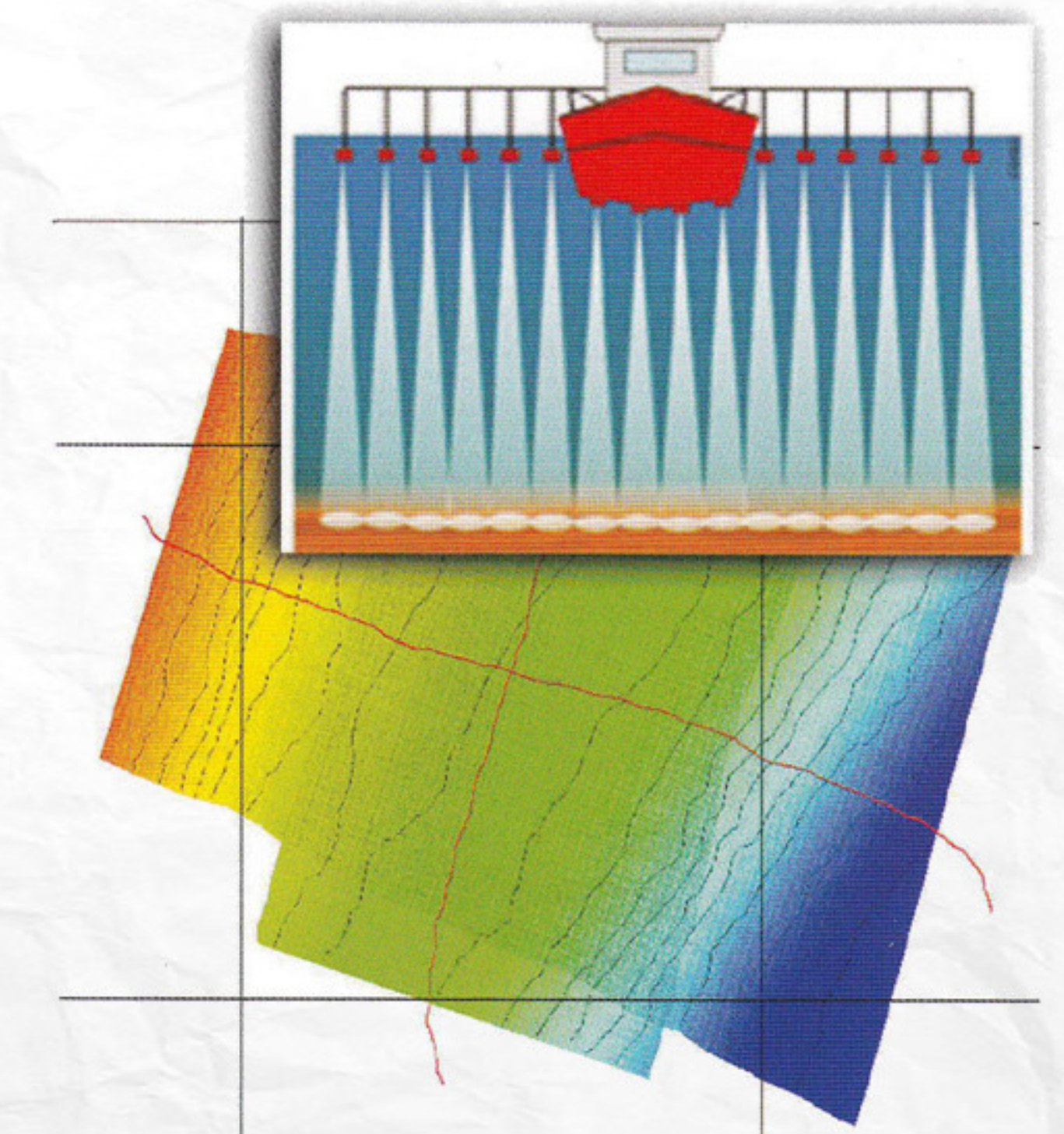
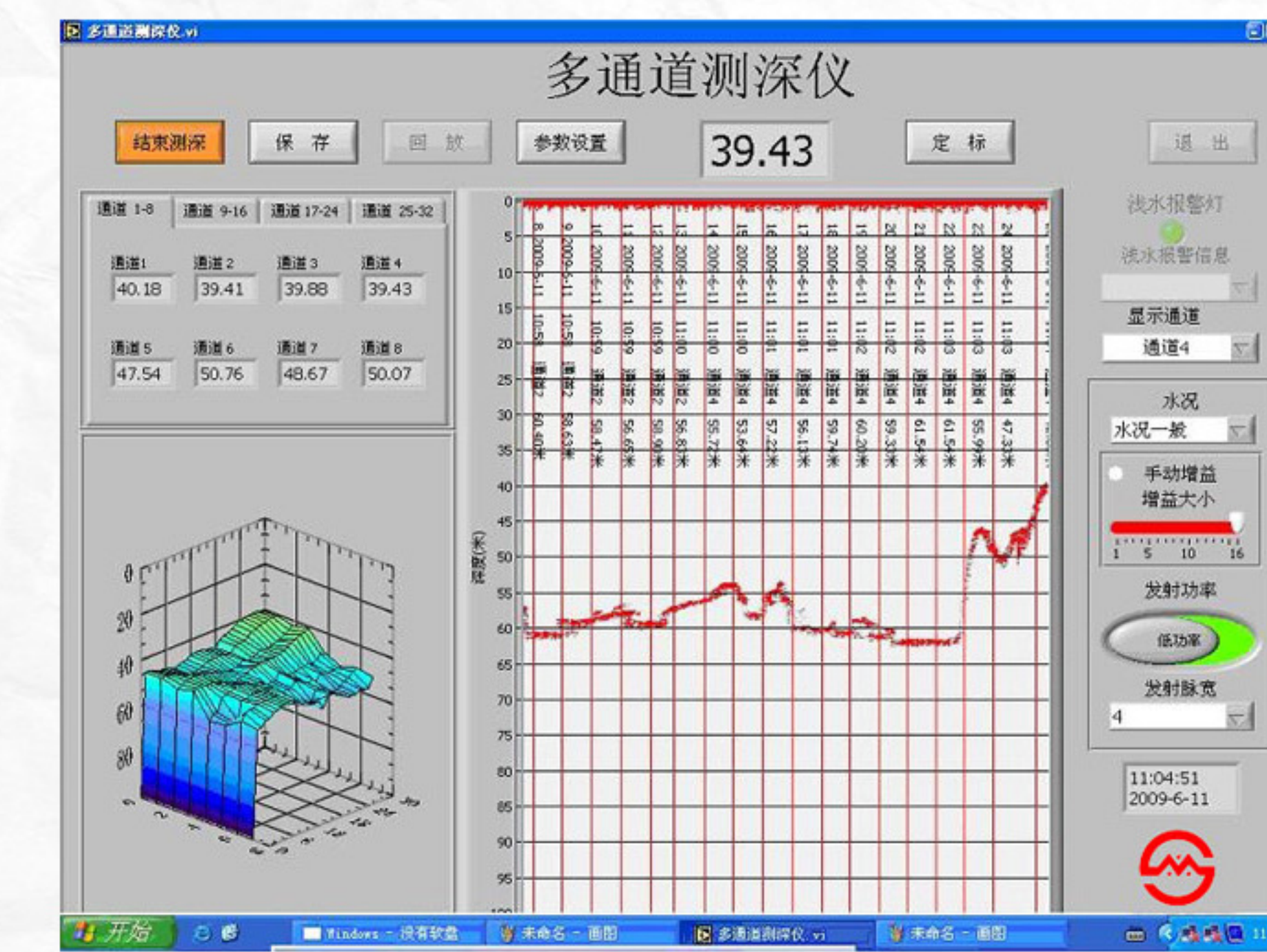
HY1660 MULTI-CHANNEL ECHOSOUNDER SWEEP SYSTEM



HY1660 Multi-channel Echosounder Sweep System is a hydrographic echosounder specifically designed for use in harbors, canals, rivers and other shallow bodies of water. Especially for use in those application including large area shallow water surveying, detecting and locating debris or other hazards to navigation in harbors, rivers or canals, monitoring the charted safe depth of navigable waterways, monitoring dredging or underwater construction operations and so on.

This compact multi-channel echosounder, based on Windows XP software, employs not only very reliable embedded main board and redundant RS232/422/USB ports, but also those advanced technology involving with channel control, image display and bottom detection. A 15inch large scale LCD display can simultaneously monitor both 2-32 channels of depth and bottom profile. All data is shown in 3-D and in real time using a color-coded waterfall display which graphically represents areas of common depth using different colors. While sweeping depth data can be simultaneously exported through a RS232/422 port to third part survey software running on the same computer.

- ★ Specially suited for use in shallow water below 50 meter
- ★ Channel combination available from 2 to 32 simultaneously, based on Windows XP and 15 inch LCD display
- ★ Equipped with redundant RS232/RS422/USB ports to output/input raw data
- ★ Water depth from Multi-channels can be simultaneously stored in the computer's hard driver permanently
- ★ Event marker operated from menu or by manual and can be searched automatically
- ★ Raw data and a time-related 3-D echogram from any channels can be displayed, replayed on screen
- ★ Any motion sensors can be interfaced to have a dynamic compensation.



SPECIFICATIONS

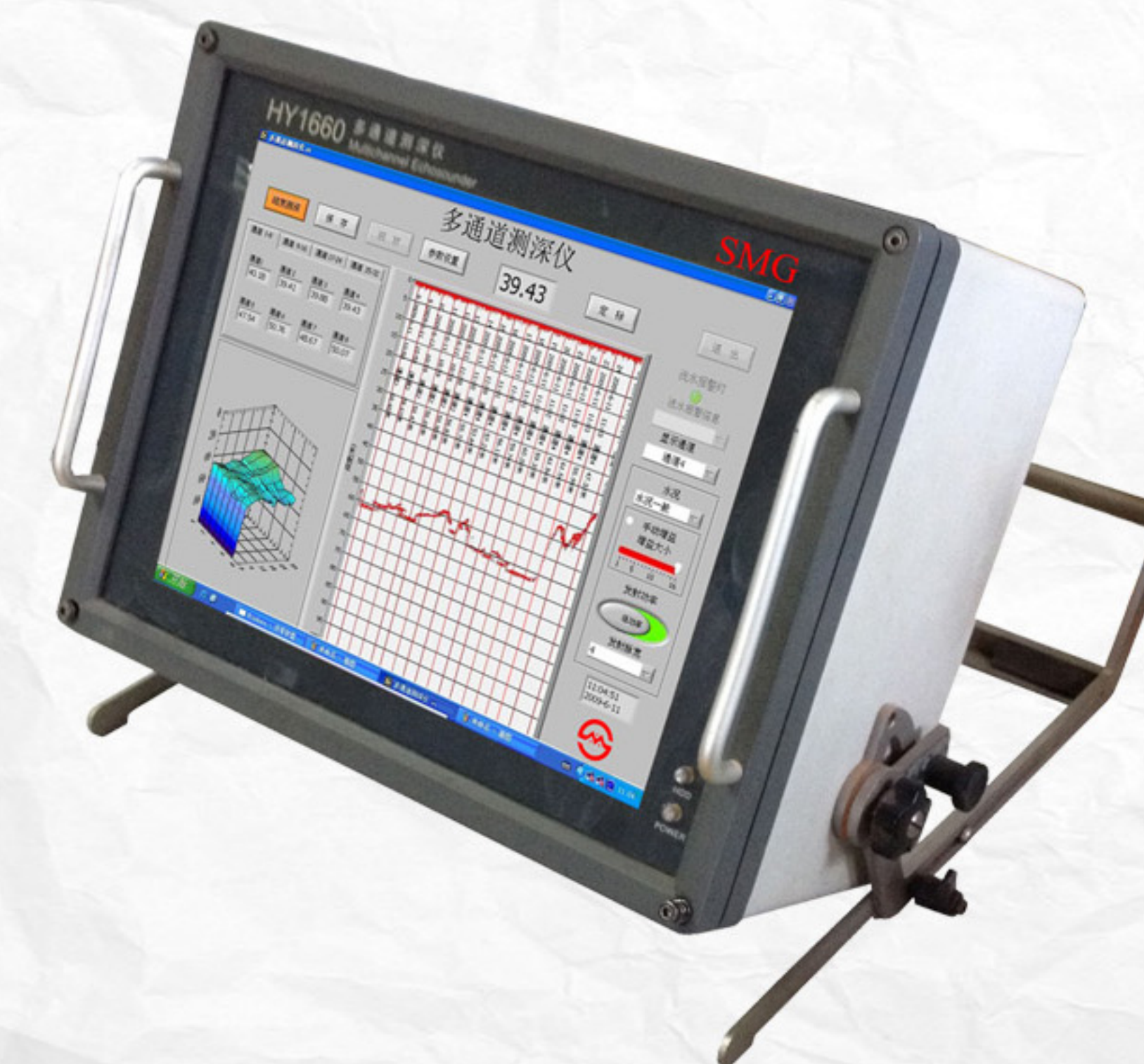
Channels: 2-32 available on request
Range: 10,20,30,40,50 meters adjustable
Power consumption: approx.80W
Working mode: time sharing, 8 pings,16 pings per second vary with the range
Pulse width: 0.05,0.1,0.2, and 0.4ms adjustable
Frequency: 208kHz (Beam width $\leq 8^\circ$)
Accuracy: $\pm(0.01m+ 0.1\% D)$, D stands for the depth surveyed
Resolution: 1cm
Output power: 50W
TVG Curve: available;
3 RS232 ports(COM1,COM3,COM4);
1 RS422 COM2 port
Other ports: 1 printer port, 1 ethernet network, 2 USB ports
Screen display: 15 inches LCD
Hard drive: 80G
Power supply: AC 180V-260V
Working conditions: Ambient temperature:0°C-40°C;
Relative humidity: $\geq 85\%$
Storage conditions: Ambient temperature:-40°C-55°C;
Relative humidity: $\geq 85\%$

COMPOSITION

Main Unit
Dimensions: 430mm*360mm*230mm
Weight: 15KG

Junction Box
Dimensions: 330mm*230mm*110mm
Weight: 5KG
Length of cable: 10m and weight 1KG

Transducer
Dimensions: 80mm*80mm
Weight: 1.5KG
Length of cable: 10m (available up to 100m on request)



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