



KUMQUAT Quality Control Acoustic Release/Transponder

The acoustic releaser KUMQUAT is used in instrument carriers like landers, OBS-systems as well as in complete moorings.

It is strongly fixed to the instrument carrier while the ground weight is hung up to the release hook.

After the research period an acoustic signal is sent down to the instrument and the releaser opens the hook.

The release optionally can also be effected with an integrated timer. Then the timer batteries provide the motor with power.

Additionally the releaser is able to head for external instruments and to send replies to the deck unit.

The releaser is available in lightweight version KUMQUAT K/MT 562 and in heavy load version KUMQUAT K/MT 552.

Both are also for sale as in-line-releaser, i. e. they are equipped with two side bars for mooring mounting: lightweight K/MT 573 and heavy load K/MT 572.



K/MT 562
Lightweight-Releaser
with transducer safety case



Technical details

Product no.:	K/MT 562 (lightweight) K/MT 552 (heavy load)	Commands:	Release, Enable, Disable, 3 individual I/O commands
Material:	titanium	Input/Output capabilities:	- connector to control up to three external devices - sensor input line to cause a ping from an external device
Operation depth:	6000m	Size:	diameter: 110mm length: 625mm
Release load:	K/MT 562: 250kg (option: higher) K/MT 552: 1000kg	Weight:	K/MT 562: 11,1kg air weight 6,3kg water weight K/MT 552: 13,6kg air weight 7,7kg water weight (incl. 12 Alkaline C-cells)
Safe working load:	K/MT 562: 500kg (option: higher) K/MT 552: 2500kg	Options:	- backup timer with separate battery and external programm unit - heavy load release - lightweight release - transducer safety case - in-line-releaser
Power supply:	2 x 6 Alkaline C-cells (Baby), redundant arrangement		
Quiescent power:	270 μ A typical		
Quiescent power consumption:	2,5 mW typical		
Battery life:	24 months (with 1,9 times safety) 100x Releases, 3000x Pings		
Reply frequencies:	7,5 to 15 kHz (0,5kHz increments), standard: 12kHz		
Reply pulse width:	8,5ms or 17ms		
Command coding:	FSK 16 bit, 12.000 individual codes available		



K/MT 572
In-line-Releaser heavy load

In order to optimize the functionality of the KUMQUAT releasers we recommend to operate them with the Acoustic Deck Units AMD200R or or 8011M, all of the same configuration as the units from ORE Offshore / EdgeTech.

The basic unit AMD200R already disposes of a high number of commands. It is equipped with a hydrophone that consists of an oil-filled broadband transducer and a 9m long cable.

The comfortable unit 8011M with more functions offers utmost control on acoustic signals. As both bit-encoded and rate-encoded signals can be sent and received even releasers from other manufactures can be operated. Moreover it has got internal rechargeable batteries.

Separate accessories: Deck Unit K/MT AMD200R
Deck Unit K/MT 8011M
Programmation cable Timer
Hand terminal
Transport and storage box
Batteries, o-rings



Deck unit AMD200R



Deck unit 8011M