

The fully tested Kirby Morgan Air Control System 5 (KMACS 5) is a lightweight, portable control box for use in surface supplied air diving operations. The KMACS 5 controls the diver's air supply, communications and monitors the diver's depth. It allows two divers clear push-to-talk (two wire) or round robin (four wire) communications.

The KMACS 5 is also available without communications.

The air supply can be either from a low pressure compressor or high-pressure cylinders. The KMACS 5's adjustable first stage regulator reduces the high-pressure air and supplies low pressure through the umbilical to the diver's breathing system. High pressure yokes with DIN adapters permit U.S. standard scuba cylinders or DIN valve cylinders to be used. Low pressure air supply fittings allow for a L.P. compressor to be used as the primary air source.

A complete pneumo system with dual reading gauges (both US Standard and Metric) is provided for each diver, as well as a shut-off/bleed system that uses two high-pressure feed lines which allows changing of used cylinders without interruption of the diving operation. Shut off valves allow the isolation of each diver's air supply.

The Communication Set is a multipurpose intercommunication system that provides reliable and clear communications between a topside operator (tender) and one or more surface-supported divers, diving bells, personnel transfer capsules (PTC)s, recompression chambers, or other submersible systems.

The lightweight, high impact polyethylene plastic case features double wall construction and extra thick corners ensure exceptional strength and a long work life. An O-ring seal protects hardware from moisture when the case is closed. All latches are stainless steel for maximum work life.



Part Number	Description
400-045	KMACS 5 No communications
400-046	KMACS 5 With communications



Specifications	
Outer Dimensions	Length 21" (534 mm) Width 17.5" (445 mm) Height 12" (305 mm)
Weight	54 lbs (24.5 kg)
H.P supply pressure max.	3000 psi (207 bar)
L.P. supply pressure max.	225 psi (15.5 bar)
Umbilical pressure range:	115-250 psi (8-17 bar)
Regulator output at 2500 psi (172 bar) supply pressure and 150 psi (10 bar) delivery pressure.	40 SCFM 1132 l/min
Relief valve	Set at 300 psi (20.7 bar)
Pneumofathometer range	0-250 FSW (0-78 MSW)
Communicator:	4 wire, can also be used in 2 wire mode
Comms power output	8 watts
Comms freq. response	600-12000 Hz
Remote operation capability	Yes, with optional unit
Direct recording capability	Yes
Battery type	Rechargeable gel cel 12 volt system
Battery performance	20 hours of continuous use between charges in 4 wire mode
Charger:	Included.

<b>A</b>	The communication set is multipurpose inter-communication system that provides reliable and clear communications
<b>B</b>	Depth gauge / pneumo systems: Dual reading gauges are accurate to 0.25% of full scale, continuously monitoring the diver's depths from 0-250 FSW (0-78 MSW). Max recommended user depth: 130 FSW
<b>C</b>	Depth Monitoring / Pneumo knob is used to meter the flow of air used for depth monitoring.
<b>D</b>	The stainless steel air outlet fittings connect the diver's air supply hose and depth/monitoring hose to the KMACS, providing a strong, reliable, corrosion resistant connection. Optional shut off valves allow the isolation of one diver's air supply from the other.
<b>E</b>	Regulator adjustment knob controls the air pressure delivered to the diver's umbilical. Variable pressure settings from 115 psi (8 bar) to 225 psi (15.5 bar) are obtainable.
<b>F</b>	Selector valve handle is used to choose either one of the air supply cylinders. Individual cylinders may be changed out with no interruption of the dive.
<b>G</b>	High pressure supply gauges directly monitor the pressure in each of the air supply cylinders
<b>H</b>	Low pressure air supply fitting allows a low pressure compressor to be used as the primary air source.
<b>I</b>	Umbilical pressure gauge provides a constant reading of the pressure in the diver's umbilical. The gauge is glycerine filled to protect the mechanism from shock.
<b>J</b>	High pressure air supply yokes with DIN fittings. Each yoke has a bleeder valve for rapid cylinder changing.

