








HANDHELD TRANSMITTERS

	Flex Duo™	Telemotive® telePendant	Flex VUE®	Flex Fit™	Flex EX/EM (HazLoc only)	Flex EX2/ Flex Wave™	Flex Base®	Flex Pro	Flex Mini	PGT	Mini-PGT
Application	CRANE & HOIST FLUID POWER SURFACE MINING	CRANE & HOIST	CRANE & HOIST FLUID POWER SURFACE MINING	FLUID POWER SURFACE MINING	CRANE & HOIST (EX) FLUID POWER (EM) SURFACE MINING (EM)	CRANE & HOIST	CRANE & HOIST	CRANE & HOIST FLUID POWER SURFACE MINING	CRANE & HOIST FLUID POWER SURFACE MINING	FLUID POWER SURFACE MINING	FLUID POWER SURFACE MINING
Region	GLOBAL	NORTH AMERICA LATIN AMERICA	GLOBAL	GLOBAL	GLOBAL	GLOBAL	ASIA PACIFIC EUROPE MIDDLE EAST AFRICA	GLOBAL	GLOBAL	GLOBAL	GLOBAL
Temperature Range	-13°F to 167°F (-25°C to 75°C)	-22°F to 158°F (-30°C to 70°C)	-40°F to 185°F (-40°C to 85°C)	-13°F to 167°F (-25°C to 75°C)	-13°F to 158°F (-25°C to 70°C)	-13°F to 167°F (-25°C to 75°C)	-13°F to 167°F (-25°C to 75°C)	-13°F to 167°F (-25°C to 75°C)	-13°F to 167°F (-25°C to 75°C)	-40°F to 185°F (-40°C to 85°C)	-40°F to 185°F (-40°C to 85°C)
Operation Range	300 feet (91.44 m)	300 feet (91.44 m)	300 feet (91.44 m) to 1,500 feet (457.2 m)	300 feet (91.44 m)	300 feet (91.44 m)	300 feet (91.44 m)	300 feet (91.44 m)	300 feet (91.44 m)	300 feet (91.44 m)	300 feet (91.44 m) to 1,500 feet (457.2 m)	300 feet (91.44 m) to 1,500 feet (457.2 m)
Environmental Protection	IP66 (NEMA 4)	IP65 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)
Hazardous Location Rating	NA	NA	NA	NA	ATEX Approval: II 3G Ex ic IIC T3/T4 Gc IECEx Approval: Ex ic IIC T3/T4 Gc	NA	NA	ATEX Approval: II 3G Ex ic IIC T3/T4 Gc IECEx Approval: Ex ic IIC T3/T4 Gc	NA	NA	NA
Temperature Range	NA	NA	NA	NA	-40°F to 140°F (-40°C to 60°C)	NA	NA	-40°F to 140°F (-40°C to 60°C)	NA	NA	NA
Operation Range	NA	NA	NA	NA	300 feet (91.44m)	NA	NA	300 feet (91.44m)	NA	NA	NA
Unlicensed (FCC Part 15/ RSS-210)	433.05-434.575 MHz	430-439.8 MHz	430-440 MHz 902-928 MHz 2.4-2.5 GHz	433.05-434.575 MHz	433-434.525 MHz	433.05-439.60 MHz 863.05-869.60 MHz 921.00-927.90 MHz	433.05-434.575 MHz	433-434.75 MHz	433-434.55 MHz	430-440 MHz 902-928 MHz 2.4-2.5 GHz	430-440 MHz 902-928 MHz 2.4-2.5 GHz
Licensed (FCC Part 90/ RSS-119)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RF Security	20 bit access code and CRC	16 bit access code and CRC	20 bit access code and CRC	20 bit access code and CRC	20 bit access code and CRC	20 bit access code and CRC	20 bit access code and CRC	20 bit access code and CRC	20 bit access code and CRC	20 bit access code and CRC	20 bit access code and CRC
Non-Rechargeable	(2) "AA" Alkaline	(2) "AA" Alkaline	(2) "AA" Alkaline	(2) "AA" Alkaline	(2) "AA" Alkaline	(2) "AA" Alkaline	(2) "AA" Alkaline	(2) "AA" Alkaline	(2) "AA" Alkaline	(3) "AA" Alkaline	(4) "AA" Alkaline
Rechargeable Battery Pack	2.4 V NiMH	3.7 V Li-Ion	3.6 V NiMH	2.4 V NiMH	NA	2.4 V NiMH	NA	2.4 V NiMH	NA	3.6 V NiMH	NA
Rechargeable Battery Capacity	2300 mAh	700 mAh	2400 mAh	2300 mAh	NA	Up to 2750 mAh per cell	NA	2300 mAh	NA	2100 mAh	NA
Rechargeable Battery Charging Cycles	500 cycles	1,000 cycles	500 cycles	500 cycles	NA	500 cycles	NA	500 cycles	NA	500 cycles	NA
Battery Chargers	Cradle or AC and DC cords available	One per battery	One per battery	Cradle or AC and DC cords available	NA	Wall mount Car adaptor Cradle	NA	Cradle or AC and DC cords available	NA	Maximum 3 chargers per power supply	NA
Battery Charge Time	Approx. 1.5-2 hours	Approx. 2-2.5 hours	Approx. 6 hours	Approx. 1.5-2 hours	NA	Approx. 3 hours	NA	Approx. 1.5-2 hours	NA	Approx. 2-3 hours	NA
Weight	6.4 oz (183 g)	1.3 lbs (0.6 kg)	4 Button: 11 oz (312 g) 8 Button: 12.5 oz (354 g) 12 Button: 14 oz (397 g)	4 button: 7.2 oz (203g) 6 button: 8.8 oz (250g) 8 button: 8.8 oz (250 g) 12 button: 10.3 oz (293 g)	8 button: 9 oz (255 g) 12 button: 10.5 oz (298 g)	4 button: 8.8 oz (249 g) 6 button: 9.5 oz (270 g) 8 button: 10.3 oz (292 g) 12 button: 12.0 oz (341 g)	4 button: 7.2 oz (203 g) 6 button: 8.8 oz (250 g) 8 button: 8.8 oz (250 g) 12 button: 10.3 oz (293 g)	8 Button: 7 oz (198 g) 12 Button: 10.5 oz (298 g)	Approx. 5.6 oz (160 g)	Approx. 1.5lbs (1.13kg) Dependent on configuration	Approx. 1.5lb (1.13kg) Dependent on configuration
Dimensions L x W x H	4.72" x 2.17" x 1.57" (130 x 55 x 40 mm)	11" x 3" x 2.25" (279.4 x 76.2 x 57.2 mm)	4 Button: 7.1" x 3.0" x 1.9" (179 x 76 x 47 mm) 8 Button: 8.9" x 3.0" x 1.9" (225 x 76 x 47 mm) 12 Button: 10.7" x 3.0" x 1.9" (271 x 76 x 47 mm)	4 Button: 5.6" x 2.7" x 1.5" (141 x 69 x 38 mm) 6 Button: 7.4" x 2.7" x 1.5" (187 x 69 x 38 mm) 8 Button: 7.4" x 2.7" x 1.5" (187 x 69 x 38 mm) 12 Button: 9.2" x 2.7" x 1.5" (233 x 69 x 38 mm)	8 Button: 7.25" x 3.0" x 1.3" (184 x 76 x 33 mm) 12 Button: 9.0" x 3.0" x 1.3" (229 x 76 x 33 mm)	4 Button: 6.0" x 2.8" x 1.7" (152 x 70 x 44 mm) 6 Button: 6.9" x 2.8" x 1.7" (175 x 70 x 44 mm) 8 Button: 7.8" x 2.8" x 1.7" (198 x 70 x 44 mm) 12 Button: 9.6" x 2.8" x 1.7" (244 x 70 x 44 mm)	4 Button: 5.6" x 2.7" x 1.5" (141 x 69 x 38 mm) 6 Button: 7.4" x 2.7" x 1.5" (187 x 69 x 38 mm) 8 Button: 7.4" x 2.7" x 1.5" (187 x 69 x 38 mm) 12 Button: 9.0" x 3.0" x 1.3" (229 x 76 x 33 mm)	8 Button: 7.2" x 3.0" x 1.3" (183 x 76 x 33 mm) 12 Button: 9.0" x 3.0" x 1.3" (229 x 76 x 33 mm)	Approx. 6.7" x 4.2" x 2.7" (170 x 106 x 69 mm)	Approx. 6.5" x 4.9" x 4.6" (165 x 125 x 117 mm)	Approx. 5" x 3.38" x 9.42" (127 x 86 x 239 mm)
Levers/ Joysticks	1- or 2-step buttons	2- or 3-step buttons	Proportional or 2-step buttons	1-step buttons	EX: 2-step buttons EM: 1-step buttons	2-step buttons	2-step buttons	Proportional buttons	1-step buttons	Stepless	Stepless
# of Functions	2 pushbuttons	6 pushbuttons and 7 membrane switches	4 pushbuttons 8 pushbuttons 12 pushbuttons	4 pushbuttons 6 pushbuttons 8 pushbuttons 12 pushbuttons	8 pushbuttons 12 pushbuttons	4 pushbuttons 6 pushbuttons 8 pushbuttons 12 pushbuttons	4 pushbuttons 6 pushbuttons 8 pushbuttons 12 pushbuttons	8 pushbuttons 12 pushbuttons	8 pushbuttons	15 toggles or 4 joysticks	10 toggles or 4 joysticks
Operating Time	Approx. 100 hours	60 to 80 continuous hours	Approx. 20 hours (dependent upon configuration)	Approx. 100 hours	Approx. 80 continuous hours	Approx. 80 continuous hours	Approx. 100 hours	Approx. 100 hours	Approx. 90 hours	80 to 100 hours (dependent upon configuration)	30 to 50 hours w/ display 50 to 70 hours w/o display (dependent upon configuration)
Two-way RF	No	No	Yes	No	No	Yes	No	No	No	Yes	Yes
Receiver Compatibility	MRX	inteleSmart2	CAN-2 CAN-6 Flex M inteleSmart2 MHR	MRX Flex Series	Flex Series CAN-2 CAN-6 Flex M inteleSmart2 MHR	MRX Flex Series	Flex Series	CAN-2 CAN-6 Flex M MHR inteleSmart2	Flex Mini	CAN-2 CAN-6 Flex M inteleSmart2 MHR	CAN-2 CAN-6 Flex M inteleSmart2 MHR
Software Features	NA	RCP	Custom Config Menu Drop Detection Pitch/Catch Active E-Stop RCP IR Pairing USB Config RDSI	NA	Pitch/Catch	Drop Detection Pitch/Catch Wireless Pairing Frequency Agility IR Pairing	Pitch/Catch Wireless Pairing IR Pairing	NA	NA	Custom Config Menu Drop Detection Active E-Stop RCP IR Pairing USB Config	Custom Config Menu Drop Detection Active E-Stop RCP IR Pairing USB Config

PRODUCT PORTFOLIO

WIRELESS CONTROLS

BELLYBOX TRANSMITTERS

	MBT	Mini-MBT	MLTX	MLTX2	XLTX	Telemotive SLTX™	CHTX
							
Application	CRANE & HOIST FLUID POWER SURFACE MINING	CRANE & HOIST FLUID POWER SURFACE MINING	CRANE & HOIST FLUID POWER SURFACE MINING	CRANE & HOIST FLUID POWER SURFACE MINING	CRANE & HOIST FLUID POWER SURFACE MINING	CRANE & HOIST	FLUID POWER SURFACE MINING
Region	GLOBAL	GLOBAL	NORTH AMERICA LATIN AMERICA	GLOBAL	GLOBAL	NORTH AMERICA LATIN AMERICA	GLOBAL
Temperature Range	-40°F to 185°F (-40°C to 85°C)	-40°F to 185°F (-40°C to 85°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 185°F (-40°C to 85°C)	-40°F to 185°F (-40°C to 85°C)	-40 F to 158 F (-40°C to 70°C)	-40°F to 185°F (-40°C to 85°C)
Operation Range	300 feet (91.44 m) to 1,500 feet (457.2 m)	300 feet (91.44 m) to 1,500 feet (457.2 m)	300 feet (91.44 m) to 1,000 feet (304.8 m)	300 feet (91.44 m) to 1,500 feet (457.2 m)	300 feet (91.44 m) to 1,500 feet (457.2 m)	300 feet (91.44 m) to 2,000 feet (609.6 m)	300 feet (91.44 m) to 1,500 feet (457.2 m)
Environmental Protection	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP6 (NEMA 1)	IP65 (NEMA 4)
HAZARDOUS LOCATIONS							
Hazardous Location Rating	NA	NA	Non-incendive transmitter for use in hazardous locations requiring ISA 12.12.01 Class I and Class II, Division 2, Group A, B, C, D, E, F and G	ATEX Approval: II 1 G Ex ia IIC T3/T4 Ga IECEX Approval: Ex ia IIC T3/T4 Ga	ATEX Approval: II 1 G Ex ia IIC T3/T4 Ga IECEX Approval: Ex ia IIC T3/T4 Ga	NA	NA
Temperature Range	NA	NA	-40°F to 104°F (-40°C to 40°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	NA	NA
Operation Range	NA	NA	300 feet (91.44m)	300 feet (91.44m)	300 feet (91.44m)	NA	NA
Environmental Protection	NA	NA	IP66 (NEMA 4)	IP66	IP46	NA	NA
FREQUENCY RANGE							
Unlicensed (FCC Part 15/RSS-210)	430-440 MHz 902-928 MHz 2.4-2.5 GHz	430-440 MHz 902-928 MHz 2.4-2.5 GHz	430-440 MHz	430-440 MHz 902-928 MHz 2.4-2.5 GHz	430-440 MHz 902-928 MHz 2.4-2.5 GHz	430-440 MHz	430-440 MHz 902-928 MHz 2.4-2.5 GHz
Licensed (FCC Part 90/RSS-119)	NA	NA	VHF: 72-76 MHz UHF: 450-470 MHz	VHF: 72-76 MHz UHF: 450-470 MHz	VHF: 72-76 MHz UHF: 450-470 MHz	VHF: 72-76 MHz UHF: 450-470 MHz	NA
RF Security	20 bit access code and CRC	20 bit access code and CRC	16 bit access code and CRC	20 bit access code and CRC	20 bit access code and CRC	16 bit access code and CRC	20 bit access code and CRC
BATTERY TYPE							
Non-Rechargeable	(3) "AA" Alkaline	(4) "AA" Alkaline	9V Alkaline pack	(3) "AA" Alkaline (4) "AA" Alkaline batteries for HazLoc transmitters	(3) "AA" Alkaline (4) "AA" Alkaline batteries for HazLoc transmitters	9V Alkaline pack	(3) "AA" Alkaline
Rechargeable Battery Pack	3.6 V NiMH	NA	7.2 V NiMH 12 V NiMH	3.6 V NiMH (NA for HazLoc transmitters)	3.6 V NiMH (NA for HazLoc transmitters)	7.2 V NiMH 12 V NiMH	3.6 V NiMH
Rechargeable Battery Capacity	2100 mAh	NA	1900 mAh	2100 mAh (NA for HazLoc transmitters)	2100 mAh (NA for HazLoc transmitters)	1900 mAh	2100 mAh
SERVICE LIFE							
Rechargeable	500 cycles	NA	500 cycles	500 cycles (NA for HazLoc transmitters)	500 cycles (NA for HazLoc transmitters)	500 cycles	500 cycles
Battery Chargers	Maximum 3 chargers per power supply	NA	Maximum 3 chargers per power supply	Maximum 3 chargers per power supply (NA for HazLoc transmitters)	Maximum 3 chargers per power supply (NA for HazLoc transmitters)	Maximum 3 chargers per power supply	Maximum 3 chargers per power supply
Battery Charge Time	Approx. 2-3 hours	NA	Approx. 1 hour	Approx. 2-3 hours (NA for HazLoc transmitters)	Approx. 2-3 hours (NA for HazLoc transmitters)	1 hour Trickle charge: 12 hrs	Approx. 2-3 hours
PHYSICAL CHARACTERISTICS							
Weight	Approx. 1.5lb (1.13kg) Dependent on configuration	Approx. 1.5lb (1.13kg) Dependent on configuration	Approx. 3 lbs (1.36 kg) Dependent on configuration	Approx. 3.5 lbs (1.59 kg) Dependent on configuration	Approx. 5 lbs (2.28 kg) Dependent on configuration	Approx. 5 lbs (2.28 kg) Dependent on configuration	Approx. 5 lbs (2.28 kg) Dependent on configuration
Dimensions L x W x H	Approx. 6.5" x 4.9" x 4.6" (165 x 125 x 117 mm)	Approx. 5.00" x 3.38" x 4.33" (127 x 86 x 110 mm)	Approx. 10" x 5.75" x 7.25" (254 x 146 x 184 mm)	Approx. 10" x 5.5" x 7.5" (254 x 140 x 191 mm)	Approx. 12" x 6.5" x 7.0" (305 x 165 x 180 mm)	Approx. 8.25" x 6.75" x 6.875" (209.6 x 171.5 x 174.2 mm) Length is dependent on configuration	Approx. 12" x 6.5" x 7.0" (305 x 165 x 180 mm)
Levers/Joysticks	Stepless	Stepless	Stepless	Stepless and stepped	Stepless and stepped	Stepless and stepped	Stepless and stepped
# of Functions	15 toggles or 4 joysticks	10 toggles or 4 joysticks	Dependent upon levers and signaling	7 levers or 3 joysticks with 16 auxiliaries	Maximum of 8 levers or 4 joysticks with 40 auxiliaries	Maximum of 7 levers with 8 auxiliaries	Maximum of 7 levers or 3 joysticks with 24 auxiliaries
Operating Time (Estimates based on "AA" Alkaline Batteries)	80 to 100 hours (dependent upon configuration)	30 to 50 hours with display 50 to 70 hours without display (dependent on configuration)	40 hours	80 to 100 hours (dependent on configuration)	80 to 100 hours (dependent on configuration)	40 hours	80 to 100 hours (dependent on configuration)
Two-way RF	Yes	Yes	No	Yes	Yes	No	Yes
Receiver Compatibility	CAN-2 CAN-6 Flex M inteleSmart2 MHR	CAN-2 CAN-6 Flex M inteleSmart2 MHR	18K CAN-2 CAN-6 inteleSmart2 Flex M MHR	CAN-2 CAN-6 Flex M inteleSmart2 MHR	CAN-2 CAN-6 Flex M inteleSmart2 MHR	18K inteleSmart2 Flex M	CAN-2 CAN-6 Flex M inteleSmart2 MHR
Software Features	Tilt Detection Drop Detection Custom Config Menu Pitch/Catch Active E-Stop RCP USB Config	Tilt Detection Drop Detection Custom Config Menu Pitch/Catch Active E-Stop RCP IR Pairing USB Config	Pitch/Catch Active E-Stop	Tilt Detection Drop Detection Custom Config Menu Pitch/Catch Active E-Stop RCP IR Pairing USB Config RDSI	Tilt Detection Drop Detection Custom Config Menu Pitch/Catch Active E-Stop RCP IR Pairing USB Config RDSI	Pitch/Catch Active E-Stop	Tilt Detection Drop Detection Active E-Stop RCP IR Pairing USB Config



WWW.COLUMBUSMCKINNON.COM/MAGNETEK

RADIO.SALES@MAGNETEK.COM
MH.EUROSALES@MAGNETEK.COM

USA +1 800.288.8178
+1 262.783.3500
CAN +1 800.792.7253
+1 905.828.1526
UK +44 (0) 1675 437297
DE +49 7940 128-0