

spectrum S



Technical data

Radio transmitter	spectrum S		
Combined with	FSE 510 / 511 / 516 / 524, FSE 726 / 727 / 736 / 737 radiobus®		
Control concepts	Point-to-point operation, catch-release, combined operation (tandem, trio, quattro), hoist / trolley pre-selection; cable option		
Operating elements	Up to 2 joysticks or up to 6 linear levers; combination of push buttons, toggle switches, rotary switches (maintained / spring-return) and other operating elements; a total of 8 one-step push buttons on the sides; radiomatic® iCON for display navigation; 8 push buttons located on the sides of the display for navigation and for quick access to pre-defined functions; <i>optional</i> : joysticks with integrated button; z-axis switches for the simultaneous control of 3 drives		
Control functions	Up to 32 control functions (on / off); up to 6 analog functions for joysticks / linear levers; up to 4 additional analog functions, e. g. for potentiometers; number of control functions expandable by radiobus® modules		
Indication	LED / acoustic signal / transmitter vibration / display: operating status, battery status		
Safety	E-STOP: PL d category 3 according to EN ISO 13849-1:2015 Protection from unauthorized use: activation via HBC start sequence or merlin® TUC Auto Power Off: automatic deactivation of the transmitter after 15 min without command input Auto Movement Off: automatic deactivation of movement functions after 5 min without command input		
Enhanced safety functions	radiomatic® shock-off / zero-g / inclination switch; <i>optional</i> : access control with merlin® TUC, radiomatic® infrakey, micro / orthogonal drive, two-step enabling switch, radiomatic® touch-to-activate, front panel lighting, flashlight, shut-down on implausible control commands		
Feedback to the operator	Data, information and warnings via 5" color TFT display; information and warnings via 16 LEDs and / or transmitter vibration; number of LEDs expandable by radiobus® modules		
Service concept	radiomatic® iLOG, radiomatic® ADCON, merlin® TMC (Teach Mode Card) for teaching of hydraulic functions		
Frequency ranges	ISM bands	Channel spacing	Radiated power
	country-specific use: 405 – 475 MHz 865 – 870 MHz	12.5 / 25 kHz 25 kHz	max. 10 mW max. 10 mW
	902 – 928 MHz	75 kHz	max. 70 mW
	country-independent use: 2.4 GHz: 2402 – 2480 MHz	1 MHz	max. 100 mW
	country-specific use: DECT: 1790 – 1930 MHz	1.728 MHz	max. 250 mW
Frequency management	Fixed frequency, radiomatic® AFS, DECT, Adaptive Frequency Hopping, radiomatic® AFM		
Antenna	Internal		
Battery technology	Rechargeable Li-ion exchange battery with capacity gauge via LEDs; continuous operating time: typically 13 hours		
Charging time	< 6 h (typ.)		
Housing material	Plastic (PA6 GF30)		
Weight	approx. 2.5 kg (5.5 lb.)		
Operating temperature	-20 °C ... +70 °C (-4 °F ... 158° F)		
Protection class	IP 65		

