

# Technical data sheet



<b>Transmitter:</b>	<b>spectrum Ex</b>
<b>Dimensions:</b>	178 x 300 x 182 mm (7.0 x 11.8 x 7.2") (spectrum 2 / B housing); 178 x 358 x 182 mm (7.0 x 14.1 x 7.2") (spectrum 3 housing)
<b>Antenna:</b>	external
<b>Start function:</b>	button combination; merlin® TUC / HBC Smart Card (only for ATEX / IECEx)
<b>STOP function:</b>	STOP impact switch
<b>Housing material / protection class:</b>	plastic; IP 65
<b>Operating elements side:</b>	up to 8 push buttons
<b>Operating elements front panel:</b>	up to 3 joysticks or 8 linear levers (or combination of linear levers and joysticks); various push buttons, toggle or rotary switches (maintained / spring-return) and other operating elements
<b>Z-axis switches:</b>	yes (optional)
<b>Proportional commands:</b>	8
<b>Enabling switch:</b>	yes (optional)
<b>Catch-release:</b>	yes (optional)
<b>Tandem operation:</b>	yes (optional)
<b>radiomatic® iON / iLOG:</b>	radiomatic® iLOG
<b>APO (Automatic Power-Off):</b>	configurable (standard: 15 min after last command input)
<b>radiomatic® report:</b>	user identification per merlin® TUC = Transmitter User Card (optional)
<b>Feedback:</b>	LCD / LED (optional)
<b>radiomatic® shock-off / zero-g:</b>	yes (optional)
<b>Relative trolley preselection:</b>	yes (optional)
<b>Bank switch:</b>	yes (optional)
<b>Temperature range:</b>	-20 °C ... +60 °C
<b>Frequency range:</b>	customized solution depending on the country of destination; 2.4 GHz
<b>Frequency management:</b>	manual frequency switch; radiomatic® AFS (Automatic Frequency Selection); 2.4 GHz technology (fully automatic)
<b>Battery type / continuous operating time:</b>	Rechargeable NiMH exchange battery BE225000; up to 9 h of continuous operating time
<b>Charger, typical charging time:</b>	QE109600 (AC) / QE109300 (DC); approx. 3 h
<b>Cable option:</b>	yes (only for Ex zones 2 / 22 and Division 2)
<b>Ex approvals:</b>	ATEX: M2 (Underground), 2G (Ex zone 1), 3G (Ex zone 2), 2D (Ex zone 21), 3D (Ex zone 22) IECEx: Mb (Underground), Gb (Ex zone 1), Gc (Ex zone 2), Db (Ex zone 21), Dc (Ex zone 22) NEC® 500 / CEC Appendix J: Class I, Division 1, Groups C and D T4 / NEC® 505 / CEC Section 18: Class I, Zone 0, Group IIB, T4
<b>Weight including battery:</b>	approx. 2.5 kg (5.5 lbs.) (depending on the transmitter version)

