

TECHNICAL SPECIFICATION PYROMASTER SLAVE4



Firmware version: 1.1.x Hardware version: 1304 Document revision: 1.0

1. Features:

- 1.1. Available operating modes:
 - Manual (remote)
 - Sequential (remote)
 - Automatic (remote)
- 1.2. Arming:
 - remotely (from Master unit)
- 1.3. Triggering/Firing:
 - remotely (from Master unit)
- 1.4. Channel count: 4
- 1.5. Max. sequences count: 4
- 1.6. Sequence designation range: 1 1023
- 1.7. Maximum duration of single sequence: 9:59,99
- 1.8. Maximum duration of automatic program: 9:59:59,99
- 1.9. Maximum resolution of programmed sequence: 0,01s (10ms)
- 1.10.Maximum resolution of automatic program 0,01s (10ms)
- 1.11. Adjustable channel activation time: yes, remotely (0.1s 2.5s)
- 1.12. Channel offset for manual mode: yes
- 1.13. Channel queuing (for activation time above 0,5s): yes
- 1.14. Continuous time synchronisation with Master unit during ongoing show: yes
- 1.15.Igniter tests:
 - Automatic (all channels)
 - Remote (from Master unit)
- 1.16. Power supply: internal battery or external (12-24 VDC)
- 1.17.Igniter firing voltage (internal battery): 24V
- 1.18.Igniter firing voltage (external power supply): equal to the voltage of the external power source
- 1.19.Maximum igniter count per channel: 3
- 1.20.Igniter test current: max 3mA
- 1.21. Measurement of resistance in the igniter test: no



- 1.22. Preview, edit and deletion of automatic program directly in the unit: no
- 1.23. Preview, edit and deletion of sequences directly in the unit: remotely (from Master unit)
- 1.24. Preview, adding and removal of Replicator units: no
- 1.25. Editing of Replicator channels directly in Slave unit: no
- 1.26.Replicator connection confirmation: no
- 1.27. Support for safety zones: yes
- 1.28. Radio channel selection: yes (from Master unit)
- 1.29. Display backlit regulation: no
- 1.30.Battery charge display: yes
- 1.31.Keyboard confirmation sound: yes
- 1.32.Arm sound alert: yes
- 1.33. Standby mode: yes
- 1.34. Standby mode activation/deactivation:
 - Locally
 - Remotely (from Master unit)

2. Radio link:

- 2.1. Radio frequency: 869MHz
- 2.2. Available radio channels: 9
- 2.3. Maximum transmitter power: 500mW (27dBm)
- 2.4. Receiver sensitivity: -116dBm @BER 10⁻³
- 2.5. Adjustable transmitter power: yes
- 2.6. Range in dense urban environment (without direct line-of-sight): approx. 1-2km
- 2.7. Range in open area (direct antenna line-of-sight): up to 10km
- 2.8. Transmission type: bidirectional
- 2.9. Transmission security: encryption, checksum, acknowledgements
- 2.10. Automatic switch to wired communication: yes

3. USB communication:

- 3.1. USB device mode: yes
- 3.2. USB connector style: C
- 3.3. Automatic program upload: yes
- 3.4. Sequence upload: yes
- 3.5. Transmission security: encryption, checksum, acknowledgements

4. Protection:

- 4.1. ESD (Electrostatic Discharge) protection
- 4.2. Resistance to shock and weather conditions
- 4.3. Channel short-circuit protection
- 4.4. Safe igniter test (maximum test current control, igniter test forbidden in armed mode)
- 4.5. System auto-diagnostics
- 4.6. Self error prompts (e.g. arm error, controller error)
- 4.7. Replicator error prompts (e.g. arm error, low battery)
- 4.8. Error reports directly to Master unit
- 4.9. Data transmission encryption

5. Other:

- 5.1. Continuous operation on single battery charge: approx. 24h
- 5.2. Continuous operation in standby mode on single battery charge: approx. 120h
- 5.3. Battery charge voltage: 5V (USB)
- 5.4. Front panel LED indicators: yes



- 5.5. LED channel activation indicator of each single channel: yes
- 5.6. External antenna: yes
- 5.7. Antenna connector style: SMA
- 5.8. Housing: metal
- 5.9. Igniter connectors: pluggable spring connectors
- 5.10.Weight: 130g
- 5.11.Dimensions: 69x64x25mm
- 5.12. Working temperature range: -20°C do +40°C