

TECHNICAL SPECIFICATION

PYROMASTER REPLICATOR II



Firmware version:
1.0.x
Hardware version:
2112
Document revision:
1.1

1. **Features:**

- 1.1. Slave/Sequencer channels duplication: yes
- 1.2. Channel count: 12
- 1.3. Slave/Sequencer channel duplication range: 1 – 240
- 1.4. Single Slave/Sequencer channel can be replicated on a few Replicator channels: yes
- 1.5. Arm: remote (from Slave/Sequencer unit)
- 1.6. Triggering/Firing: remote (from Slave/Sequencer unit)
- 1.7. Adjustable channel activation time: yes (0,1s – 2,5s)
- 1.8. Igniter test:
 - Local automatic (all channels)
 - Remote (from Slave/Sequencer or Master)
- 1.9. Igniter firing voltage: 24V
- 1.10. Maximum igniter count per channel: 10
- 1.11. Igniter test current: max 3mA
- 1.12. Battery charge display: yes
- 1.13. Keyboard confirmation sound: yes
- 1.14. Arm sound alert: yes
- 1.15. Automating power on/off after superior unit (Slave/Sequencer) power on/off: yes
- 1.16. Automatic power off without superior unit connection: yes (after 30s)

2. **Wired link - Replicator Line:**

- 2.1. Physical layer: RS485 (differential transmission)
- 2.2. Automatic line termination: yes
- 2.3. Replicator Line input count: 1
- 2.4. Replicator Line output count: 1
- 2.5. Maximum unit count on single line: 32
- 2.6. Maximum line length: 1,2km
- 2.7. Transmission type: bidirectional
- 2.8. Transmission security: encryption, checksum, acknowledgements

3. **Protection:**

- 3.1. ESD (Electrostatic Discharge) protection
- 3.2. Resistance to shock and weather conditions

- 3.3. Channel short-circuit protection
- 3.4. Safe igniter test (maximum test current control, igniter test forbidden in armed mode)
- 3.5. System auto-diagnostics
- 3.6. Error reporting (e.g. arm error)
- 3.7. Error reports directly to Slave/Sequencer/Master
- 3.8. Data transmission encryption

4. Other:

- 4.1. Continuous operation on single battery charge: approx. 75h
- 4.2. Battery charge voltage: 24V
- 4.3. LED channel activation indicator of each single channel: yes
- 4.4. Battery charge LED indicator: yes
- 4.5. Arm status LED indicator: yes
- 4.6. Housing: aluminium, powder coating
- 4.7. Igniter connectors: metal, stringed
- 4.8. Weight: 1,8kg
- 4.9. Dimensions: 38x8x7cm
- 4.10. Working temperature range: -20°C do +40°C