

## PyroButton software comparison

Feature	PyroButton-SQL Professional/ Network	PyroButton-SQL Basic	PyroButton Standard	PyroButton Basic
<b>21 CFR Part 11</b>				
21 CFR 11 Compliance	✓	✓	✓ via separate document container	✓ via separate document container
<b>Data-logger operations</b>				
Automatic adapter detection	✓	✓	✓	✓
PyroButton data-acquisition set up/upload	✓	✓	✓	✓
Reading/download measurement results	✓	✓	✓	✓
Wizard for configuration Set-up of Measurement	✓	✓	✓	✓
Stop Measurement	✓	✓	✓	✓
Set PyroButton into “Sleep” mode	✓	✓	✓	✓
Measurement templates for quick set-up	✓	✓	-	-
High throughput batch set-up/upload of the data-acquisition of PyroButton (e.g. setting up multiple PyroButtons with one click)	✓	✓	-	-
High throughput batch reading/download of measurements (reading multiple PyroButtons with one click)	✓	✓	-	-

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<b>Data management</b>				
Secured storage of Critical Control Parameters in PyroButton memory	✓	✓	✓	✓
Measured data are saved into file	-	-	✓	✓
Out-of-limit data relative to 2-levels of lower-upper limits	✓	✓	✓	✓
Measured data are saved into SQL database	✓	✓	-	-
Backup and Restore capabilities for MSSQL database	✓	✓	-	-
Properties of closed environment (1): dimensions, limit specifications of temperature and/or humidity, ISO classification as required	✓	✓	-	-
Properties of closed environment (2): set specification(s) of temperature and/or humidity, pressure as required, bioburden as required	✓	-		
Properties of open environment: GPS specification	✓	-	-	-
Application modules: Clean room, Equipment, Facility, Process, Stability Chamber, Sterilization, Open Space monitoring, and Transportation	✓	-	-	-
Container/Closure Systems management	✓	-	-	-
SOP management	✓	-	-	-
Searchable measurement database containing all measurement data	✓	✓	-	-
Measurement Selector Wizard	✓	✓	-	-

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<b>Integrated SQC/SPC module</b>				
Moisture Permeability Evaluation	✓	-	-	-
Hygroscopicity evaluation	✓	-	-	-
Performance Qualification of steam sterilization	✓	✓	-	-
Performance Qualification of ETO sterilization relative temperature & humidity	✓	✓	-	-
Load qualification of steam & ETO sterilizations	✓	-	-	-
Temporal Map	✓	✓	-	-
Sensor-positional map	✓	-	-	-
Temperature and/or humidity mapping, qualification, & validation of incubators, refrigerators, freezers, stability chambers, warehouses, processing facilities, & transportation containers	✓	-	-	-
Load qualification & load validation of incubators, refrigerators, freezers, stability chambers, warehouses, processing facilities, & transportation containers	✓	-	-	-
Temperature/humidity evaluation relative to GPS positions of the sensors	✓	-	-	-
List of Data-loggers near to expiry date	✓	✓	-	-
List of measurements, which had been stopped	✓	✓	-	-
Compartment log	✓	✓	-	-
<b>Data-loggers</b>				
Serial, Parallel and USB port handling	✓	✓	✓	✓
Handling of PyroButton-G	✓	✓	✓	✓
Handling of PyroButton-L	✓	✓	✓	✓

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<b>Data-loggers</b>	✓	✓	✓	✓
Encryption of the data-loggers (software and/or hardware)	✓	✓	✓	✓
Autotomatic integration of calibration data	✓	✓	✓	✓
Measurement alarms	✓	✓	✓	✓
Histogram	✓	✓	✓	✓
Attrition and life-time estimation	✓	✓	✓	✓
Data-logger position, 3D coordinates, mounting, container/closure, project management	✓	-	-	-
User defined custom properties	✓	-	-	-
<b>Calibrations</b>				
Warning if calibration is required	✓	✓	✓	✓
Calibration attributes (calibrator, company/person, SOP identifier, certificate identifier, date of next scheduled calibration)	✓	✓	✓	✓
Temperature calibration	✓	✓	✓	✓
Rel. humidity calibration	✓	✓	✓	✓
Measurement uncertainty	✓	✓	✓	-
Calibration history, display of calibration table and curve	✓	✓	-	-
Performance Qualification of the data-logger relative to calibration data	✓	✓	-	-

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<b>Measurement data</b>				
Measurement graph (temperature and/or humidity trend(s)) with excursion analysis	✓ (enhanced)	✓ (enhanced)	✓	✓
Simultaneous display of two or more measurements	✓ (arbitrary)	✓ (arbitrary)	✓ (parallel measurements only)	✓ (parallel measurements only)
Printable measurement summary	✓ (enhanced)	✓ (enhanced)	✓	✓
Exporting data to Excel	✓	✓	✓	✓
Exporting data to XML	✓	✓	✓	✓
Smoothing RH data	✓	✓	✓	✓
Uncertainty of measurement calculations	✓	✓	✓	✓
Customizable smoothing parameters	✓	✓	✓	-
Average, minimum, maximum, standard deviation calculation for partial curves	✓	✓	-	-
<b>Miscellaneous</b>				
Celsius, Fahrenheit and Kelvin temperature units can be selected	✓	✓	✓	✓
Local time/date or UTC (standardized) time/date zone can be selected	✓	✓	✓	✓
User defined parameters for generation of IDs	✓	✓	-	-
<b>Network operations</b>				
Multiple client software working on the same remote database	✓ (Network version only)	-	-	-

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<b>Prices</b>				
Based on single license	\$6,550 (IQ-OQ-PQ & 21 CFR Part 11 verification protocols are included)	\$1,937 (IQ-OQ-PQ & 21 CFR Part 11 verification protocols are included)	\$725 (IQ-OQ-PQ & 21 CFR Part 11 verification protocols are SOLD separately)	\$575 (IQ-OQ-PQ & 21 CFR Part 11 verification protocols are SOLD separately)
Network/SQL Server – Based on 5-seat license	12,500 (IQ-OQ-PQ & 21 CFR Part 11 verification protocols are included)			