

PyroButton Catalog

Valid to: 2005-06-31

Minimal configuration of PyroButton self-powered data-logger system:

- PyroButton self-powered data-logger,
- PyroButton adapter,
- PyroButton software.

Warranty period: Calibrated data-loggers - 3 years (annual recalibration by Opulus or Opulus Licensee is required)

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
PyroButton data-logger packages			
100-PKE-001-100	<p>General Application - Basic Package</p> <p>4 x <u>PyroButton-G</u> - Self-powered temperature device (-40 to +85°C), Temperature resolution ±0.5°C, Temperature accuracy ±0.5°C Calibrated at 5-points relative to NIST reference. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement. 1 x PB-Adapter-S/U8 - <u>PyroButton communication & power interface</u>, serial or USB port type (shipped, as required by the order), accommodates 8 PyroButtons. 1 x <u>PyroButton-Basic 2.0 software</u> - (capable of both temperature & humidity measurements); 21 CFR Part 11 compliant. Built-in automatic correction of measurement based on 5-point calibration curve. Built-in signal processing for humidity signal smoothing that reduces inherent noise, improves accuracy, and reproducibility. 1 workstation license</p>	1,170 /package	936 /package
100-PKE-002-100	<p>Pharma/Biotech/Medical Device/HACCP - Basic Package</p> <p>4 x <u>PyroButton-G</u> - Self-powered temperature device (-40 to +85°C), Temperature resolution ±0.5°C, Temperature accuracy ±0.5°C Calibrated at 5-points relative to NIST reference. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement. 1 x PB-Adapter -S8 - <u>PyroButton communication & power interface</u>, serial port type. It accommodates 8 PyroButtons. 1 x <u>PyroButton-Basic 2.0 software</u> - (capable of both temperature & humidity measurements); 21 CFR Part 11 compliant. Built-in automatic correction of measurement based on 5-point calibration curve. Built-in signal processing for humidity signal smoothing that reduces inherent noise, improves accuracy, and reproducibility. 1 workstation license IQ-OQ-PQ verification protocol 21 CFR Part 11 verification protocol</p>	2,870 /package	2 296 /package

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
100-PKE-003-100	<p>Precision Package for General Application 4 x <u>PyroButton-L</u> - Self-powered temperature device (-40 to +85°C), Temperature resolution ±0.0625°C, Temperature accuracy ±0.1°C Calibrated at 5-points relative to NIST reference. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement. 1 x PB-Adapter-S/U8 <u>PyroButton communication & power interface</u>, serial or USB port type (shipped, as required by the order), accommodates 8 PyroButtons. 1 x <u>PyroButton-Standard 2.0 software</u> (capable of both temperature & humidity measurements); Built-in automatic correction of measurement based on 5-point calibration curve. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility, Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant. 1 workstation license</p>	1,450 /package	1 160 /package
100-PKE-004-100	<p>Precision Package for Pharma/Biotech/Medical Device/HACCP 4 x <u>PyroButton-L</u> - Self-powered temperature device (-40 to +85°C), Temperature resolution ±0.0625°C, Temperature accuracy ±0.1°C Calibrated at 5-points relative to NIST reference. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement 1 x PB-Adapter-S/U8 <u>PyroButton communication & power interface</u>, serial or USB port type (shipped, as required by the order), accommodates 8 PyroButtons 1 x <u>PyroButton-Standard 2.0 software</u> (capable of both temperature & humidity measurements); Built-in automatic correction of measurement based on 5-point calibration curve. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license IQ-OQ-PQ verification protocol 21 CFR Part 11 verification protocol</p>	3,150 /package	2 520 /package

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
<p>100-PKE-005-100</p>	<p>Sterilization Process Management - Steam/Basic Package 4 x <u>PyroButton-T</u> - Self-powered temperature device (0 to 125°C), Temperature resolution ±0.0625°C, Temperature accuracy ±0.1°C Calibrated at 5-points relative to NIST reference Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement. 1 x PB-Adapter-S/U8 <u>PyroButton communication & power interface</u>, serial or USB port type (shipped, as required by the order), accommodates 8 PyroButtons. 1 x <u>PyroButton-SQL/S 1.2 software</u> (includes: Sterilization, Clean Room, Process, Facilities, & Container/Closure application modules; provides heat distribution map, heat penetration evaluation, loading effects, container/closure evaluation, PQ, and much more); Built-in automatic correction of measurement based on 5-point calibration curve. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license IQ-OQ-PQ verification protocol 21 CFR Part 11 verification protocol (see, Application)</p>	<p>6,520 /package</p>	<p>5 216 /package</p>
<p>100-PKE-006-100</p>	<p>Sterilization Process Management - ETO/Basic Package 4 x <u>PyroButton-TH</u> - Self-powered temperature/humidity data-logger Temperature (-20 to +85°C), ±0.0625°C resolution, ±0.1°C accuracy Humidity (10 - 90% RH), resolution ± 0.04% RH, ±1% RH accuracy Calibrated at 5-temperature points relative to NIST reference and 3-humidity points. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement. 1 x PB-Adapter-S/U8 <u>PyroButton communication & power interface</u>, serial or USB port type (shipped, as required by the order), accommodates 8 PyroButtons. 1 x <u>PyroButton-SQL/S 1.2 software</u> (includes: Sterilization, Clean Room, Process, Facilities, & Container/Closure application modules; provides heat & moisture distribution map, loading effects, container/closure evaluation, PQ, and much more); Built-in automatic correction of measurement based on 5-point calibration curve. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation 21 CFR Part 11 compliant 1 workstation license IQ-OQ-PQ verification protocol 21 CFR Part 11 verification protocol (see, Application)</p>	<p>6,920 /package</p>	<p>5 536 /package</p>

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
<p>100-PKE-007-100</p>	<p>Stability Process Management -Basic Package 4 x <u>PyroButton-TH</u> - Self-powered temperature/humidity data-logger Temperature (-20 to +85°C), ±0.0625°C resolution, ±0.1°C accuracy Humidity (10 - 90% RH), resolution ± 0.04% RH, ±1% RH accuracy Calibrated at 5-temperature points relative to NIST reference and 3-humidity points. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement. 1 x PB-Adapter-S/U8 <u>PyroButton communication & power interface</u>, serial or USB port type (shipped, as required by the order), accommodates 8 PyroButtons. 1 x <u>PyroButton-SQL/ST 1.2 software</u> (includes: Stability, Facilities, Process, Transportation, Container/Closure, & Permeability application modules; provides heat & moisture distribution map, loading effects, container/closure evaluation, permeability evaluation of container/closure, PQ, and much more); Built-in automatic correction of measurement based on 5-point calibration curve. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license IQ-OQ-PQ verification protocol 21 CFR Part 11 verification protocol (see, Application)</p>	<p>7,800 /package</p>	<p>6 240 /package</p>

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
<p>100-PKE-008-100</p>	<p>Facilities T/H Management -Basic Package 4 x <u>PyroButton-TH</u> - Self-powered temperature/humidity data-logger Temperature (-20 to +85°C), ±0.0625°C resolution, ±0.1°C accuracy Humidity (10 - 90% RH), resolution ± 0.04% RH, ±1% RH accuracy Calibrated at 5-temperature points relative to NIST reference and 3-humidity points. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement. 1 x <u>PB-Adapter-S/U8 PyroButton communication & power interface</u>, serial or USB port type (shipped, as required by the order), accommodates 8 PyroButtons. 1 x <u>PyroButton-SQL/F 1.2 software</u> (includes: Facilities, Equipment, Process, Clean Room, Container/Closure application modules); provides heat & moisture distribution map, loading effects, container/closure evaluation, bioburden effects, PQ, and much more); Built-in automatic correction of measurement based on 5-point calibration curve. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license IQ-OQ-PQ verification protocol 21 CFR Part 11 verification protocol (see, Application)</p>	<p>6,920 /package</p>	<p>5 536 /package</p>

<p>100-PKE-009-100</p>	<p>Transportation Temperature Management-Basic Package 4 x <u>PyroButton-G</u> - Self-powered temperature device (-40 to +85°C), Temperature resolution ±0.5°C, Temperature accuracy ±0.5°C Calibrated at 5-points relative to NIST reference. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement. 1 x <u>PB-Adapter-S/U8 PyroButton communication & power interface</u>, serial or USB port type (shipped, as required by the order), accommodates 8 PyroButtons. 1 x <u>PyroButton-SQL/T 1.2 software</u> (includes: Stability, Facilities, Process, Transportation, Container/Closure, & Permeability application modules; provides heat & moisture distribution map, loading effects, container/closure evaluation, permeability evaluation of container/closure, PQ, and much more); Built-in automatic correction of measurement based on 5-point calibration curve. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license (see, Application)</p>	<p>3,950 /package</p>	<p>3 160 /package</p>
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Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
100-PKE-010-100	<p>Transportation Temperature Management-Basic Package for Pharmaceutical/Biotech/Medical Device/HACCP</p> <p>4 x <u>PyroButton-G</u> - Self-powered temperature device (-40 to +85°C), Temperature resolution ±0.5°C, Temperature accuracy ±0.5°C Calibrated at 5-points relative to NIST reference Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement. 1 x <u>PB-Adapter-S/U8 PyroButton communication & power interface</u>, serial or USB port type (shipped, as required by the order), accommodates 8 PyroButtons. 1 x <u>PyroButton-SQL/T 1.2 software</u> (includes: Stability, Facilities, Process, Transportation, Container/Closure, & Permeability application modules; provides heat & moisture distribution map, loading effects, container/closure evaluation, permeability evaluation of container/closure, PQ, and much more); Built-in automatic correction of measurement based on 5-point calibration curve. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license IQ-OQ-PQ verification protocol 21 CFR Part 11 verification protocol (see, Application)</p>	<p>5,650 /package</p>	<p>4 520 /package</p>

<p>100-PKE-011-100</p>	<p>Meteorological T/H Management -Basic Package 4 x <u>PyroButton-TH</u> - Self-powered temperature/humidity data-logger Temperature (-20 to +85°C), ±0.0625°C resolution, ±0.1°C accuracy. Humidity (10 - 90% RH), resolution ± 0.04% RH, ±1% RH accuracy. Calibrated at 5-temperature points relative to NIST reference and 3-humidity points. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement. 1 x PB-Adapter-S/U8 <u>PyroButton communication & power interface</u>, serial or USB port type (shipped, as required by the order), accommodates 8 PyroButtons. 1 x <u>PyroButton-SQL/M 1.2 software</u> (includes: Meteorological application module); provides heat & moisture distribution map, PQ, and much more); Built-in automatic correction of measurement based on 5-point calibration curve. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license (see, Application)</p>	<p>4,540 /package</p>	<p>3 632 /package</p>
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Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
100-PKE-012-100	<p>DUMAS - Temperature/Humidity Isolator Box with manipulating gloves Dimensions: 100 cm x 50cm x 50cm Temperature is regulated & controlled by thermoelectric (Peltier) based System; the required humidity at the given temperature is ensured by saturated salt solution. Temperature range: 0 to 50°C; Humidity range: 20 to 75% RH; Temperature sensor: ±0.01°C resolution, ±0.1°C accuracy Humidity sensor: ± 0.03% RH, ±1% RH accuracy Calibrated at 3-temperature/humidity points relative to reference standards. Computer interface for on-line monitoring. Integrated analytical balance having 0.01 mg resolution. 1 x DUMAS-SQL software DUMAS-SQL integrates Particulate Matter analytical information management with data-acquisition of the measurement process, including environmental control & monitoring of the analytical isolator and weighing automation of the filter-collector. 21 CFR Part 11 compliant 1 workstation license (see, Application)</p>	19,750 /package	15 800 /package
PyroButton Self-powered temperature & humidity data-loggers			
100-IBE-001-100	<p>PyroButton-G - Self-powered temperature device (-40 to +85°C), Temperature resolution ±0.5°C, Temperature accuracy ±0.5°C Calibrated at 5-points relative to NIST reference. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement.</p>	115	92
100-IBE-003-100	<p>PyroButton-L - Self-powered temperature device (-40 to +85°C); Temperature resolution ±0.0625°C, Temperature accuracy ±0.1°C Calibrated at 5-points relative to NIST reference. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement.</p>	155	124
100-IBE-004-100	<p>PyroButton-T - Self-powered temperature device (0 to 125°C), Temperature resolution ±0.0625°C, Temperature accuracy ±0.1°C Calibrated at 5-points relative to NIST reference. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement.</p>	225	180
100-IBE-005-100	<p>PyroButton-TH - Self-powered temperature/humidity data-logger Temperature (-20 to +85°C), ±0.0625°C resolution, ±0.1°C accuracy Humidity (10 - 90% RH), resolution ± 0.04% RH, ±1% RH accuracy Calibrated at 5-temperature points relative to NIST reference and 3-humidity points. Each measurement is corrected relative to the calibration curve. Data integrity protection for 21 CFR Part 11 requirement.</p>	325	260

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
PyroButton adapters- programming/data-download			
100-IAE-006-100	PB-Adapter-S8 - PyroButton serial communication & power interface , accommodates 8 PyroButtons	250	200
100-IAE-007-100	PB-Adapter-U8 - PyroButton USB communication & power interface , accommodates 8 PyroButtons	250	200
100-IAE-008-100	PB-Adapter-S16 - PyroButton serial communication & power interface , accommodates 16 PyroButtons	450	360
100-IAE-009-100	PB-Adapter-U16 - PyroButton USB communication & power interface , accommodates 16 PyroButtons	450	360
100-IAE-010-100	PB-Adapter-S32 - PyroButton serial communication & power interface , accommodates 32 PyroButtons	825	660
100-IAE-011-100	PB-Adapter-U32 - PyroButton USB communication & power interface , accommodates 32 PyroButtons	825	660
100-IAE-004-100	PB-Adapter-S50 - PyroButton serial communication & power interface , accommodates 50 PyroButtons	1,175	940
100-IAE-005-100	PB-Adapter-U50 - PyroButton USB communication & power interface , accommodates 50 PyroButtons	1,175	940
PyroButton software for Self-powered temperature monitoring system			
100-PBE-007-001E	PyroButton-Basic 2.0 software - (capable of both temperature & humidity measurements); 21 CFR Part 11 compliant. Built-in automatic correction of measurement based on 5-point calibration curve. Built-in signal processing for humidity signal smoothing that reduces inherent noise, improves accuracy, and reproducibility. 1 workstation license	460	368
100-PBE-007-001F	PyroButton-Basic 2.0 software 2-5 workstation license	368 /license	295 /license
100-PBE-007-001G	PyroButton-Basic 2.0 software 6-10 workstation license	306 /license	245 /license
100-PBE-007-001H	PyroButton-Basic 2.0 software 11-25 workstation license	230 /license	184 /license
100-PBE-007-001I	PyroButton-Basic 2.0 software 26-50 workstation license	184 /license	147 /license
100-PBE-007-001J	PyroButton-Basic 2.0 software 51-100 workstation license	147 /license	118 /license
100-PBE-007-001K	PyroButton-Basic 2.0 software 101+ workstation license	118 /license	95 /license
100-PBE-007-004	IQ-OQ-PQ verification protocol for PyroButton-Basic software.	850	680
100-PBE-007-020	PyroButton-Basic software validation document	2,125	1 700
100-PBE-007-005	21 CFR Part 11 verification protocol for PyroButton-Basic software.	850	680
100-PBE-007-010	Good Data-logger Practices-Basics Competency training refresher course. SCORM compliant (see, http://cactus.opulus.com)	350	280

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
100-PBE-007-002E	PyroButton-Standard 2.0 software - (capable of both temperature & humidity measurements); Built-in automatic correction of measurement based on 5-point calibration curve. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license	580	464
100-PBE-007-002F	PyroButton-Standard 2.0 software 2-5 workstation license	464 /license	372 /license
100-PBE-007-002G	PyroButton-Standard 2.0 software 6-10 workstation license	371 /license	297 /license
100-PBE-007-002H	PyroButton-Standard 2.0 software 11-25 workstation license	278 /license	223 /license
100-PBE-007-002I	PyroButton-Standard 2.0 software 26-50 workstation license	223 /license	179 /license
100-PBE-007-002J	PyroButton-Standard 2.0 software 51-100 workstation license	178 /license	143 /license
100-PBE-007-002K	PyroButton-Standard 2.0 software 101+ workstation license	143 /license	115 /license
100-PBE-007-006	IQ-OQ-PQ verification protocol for PyroButton-Standard software	850	680
100-PBE-007-021	PyroButton-Standard software validation document	2,125	1 700
100-PBE-007-007	21 CFR Part 11 verification protocol for PyroButton-Standard software	850	680
100-PBE-007-010	Good Data-logger Practices-Basics Competency training refresher course. SCORM compliant (see, http://cactus.opulus.com)	350	280
100-PBE-007-020E	PyroButton-SQL/S 1.2 - Sterilization Process Management - Software: capable of both temperature & humidity measurements; Includes: Sterilization, Clean Room, Process, Facilities, & Container/Closure application modules; provides heat & moisture distribution map, heat penetration evaluation, loading effects, container/closure evaluation, PQ, and much more); Built-in automatic correction of measurement based on calibration curves. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license	3,670	2 936
100-PBE-007-020F	PyroButton-SQL/S 1.2 - Sterilization Process Management 2-5 workstation license	2,936 /license	2 349 /license

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
100-PBE-007-020G	PyroButton-SQL/S 1.2 - Sterilization Process Management 6-10 workstation license	2,349 /license	1 880 /license
100-PBE-007-020H	PyroButton-SQL/S 1.2 - Sterilization Process Management 11-25 workstation license	1,762 /license	1 410 /license
100-PBE-007-020I	PyroButton-SQL/S 1.2 - Sterilization Process Management 26-50 workstation license	1,409 /license	1 127 /license
100-PBE-007-020J	PyroButton-SQL/S 1.2 - Sterilization Process Management 51-100 workstation license	1,127 /license	902 /license
100-PBE-007-020K	PyroButton-SQL/S 1.2 - Sterilization Process Management 101+ workstation license	902 /license	722 /license
100-PBE-007-021E	PyroButton-SQL/ST 1.2 - Stability Process Management Software: capable of both temperature & humidity measurements. Includes: Stability, Process, Facilities, Container/Closure & Permeability application modules; provides heat & moisture distribution map, heat penetration evaluation, loading effects, container/closure evaluation, permeability evaluation of containers/closures, PQ, and much more); Built-in automatic correction of measurement based on calibration curves. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license	4,550	3 640
100-PBE-007-021F	PyroButton-SQL/ST 1.2 - Stability Process Management 2-5 workstation license	3,640 /license	2 912 /license
100-PBE-007-021G	PyroButton-SQL/ST 1.2 - Stability Process Management 6-10 workstation license	2,912 /license	2 330 /license
100-PBE-007-021H	PyroButton-SQL/ST 1.2 - Stability Process Management 11-25 workstation license	2,330 /license	1 864 /license
100-PBE-007-021I	PyroButton-SQL/ST 1.2 - Stability Process Management 26-50 workstation license	1,864 /license	1 491 /license
100-PBE-007-021J	PyroButton-SQL/ST 1.2 - Stability Process Management 51-100 workstation license	1,491 /license	1 193 /license
100-PBE-007-021K	PyroButton-SQL/ST 1.2 - Stability Process Management 101+ workstation license	1,193 /license	955 /license

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
100-PBE-007-022E	<p>PyroButton-SQL/F 1.2 - Facilities T/H Management Software: capable of both temperature & humidity measurements. Includes: Stability, Process, Facilities, Container/Closure & Permeability application modules; provides heat & moisture distribution map, heat penetration evaluation, loading effects, container/closure evaluation, permeability evaluation of containers/closures, PQ, and much more); Built-in automatic correction of measurement based on calibration curves. Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license</p>	3,670	2 936
100-PBE-007-022F	PyroButton-SQL/F 1.2 - Facilities T/H Management 2-5 workstation license	2,936 /license	2 349 /license
100-PBE-007-022G	PyroButton-SQL/F 1.2 - Facilities T/H Management 6-10 workstation license	2,349 /license	1 880 /license
100-PBE-007-022H	PyroButton-SQL/F 1.2 - Facilities T/H Management 11-25 workstation license	1,762 /license	1 410 /license
100-PBE-007-022I	PyroButton-SQL/F 1.2 - Facilities T/H Management 26-50 workstation license	1,409 /license	1 127 /license
100-PBE-007-022J	PyroButton-SQL/F 1.2 - Facilities T/H Management 51-100 workstation license	1,127 /license	902 /license
100-PBE-007-022K	PyroButton-SQL/F 1.2 - Facilities T/H Management 101+ workstation license	902 /license	722 /license
100-PBE-007-023E	<p>PyroButton-SQL/T 1.2 - Transportation T Management Software: for temperature measurement Includes: Transportation, Facilities, Container/Closure application modules; provides heat distribution map, loading effects, container/closure evaluation, PQ, and much more; Built-in automatic correction of measurement based on calibration curves. Built-in uncertainty of measurement calculation. 21 CFR Part 11 compliant 1 workstation license</p>	3,240	2 592
100-PBE-007-023F	PyroButton-SQL/T 1.2 - Transportation T Management 2-5 workstation license	2,592 /license	2 074 /license
100-PBE-007-023G	PyroButton-SQL/T 1.2 - Transportation T Management 6-10 workstation license	2,074 /license	1 660 /license
100-PBE-007-023H	PyroButton-SQL/T 1.2 - Transportation T Management 11-25 workstation license	1,555 /license	1 244 /license
100-PBE-007-023I	PyroButton-SQL/T 1.2 - Transportation T Management 26-50 workstation license	1,244 /license	996 /license
100-PBE-007-023J	PyroButton-SQL/T 1.2 - Transportation T Management 51-100 workstation license	995 /license	796 /license
100-PBE-007-023K	PyroButton-SQL/T 1.2 - Transportation T Management 101+ workstation license	796 /license	637 /license

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
100-PBE-007-024E	<p>PyroButton-SQL/M 1.2 - Meteorological T/H Management Software: capable of both temperature & humidity measurements. Includes: Meteorological application module; provides heat & moisture distribution map, PQ, and much more; Built-in automatic correction of measurement based on calibration curves.</p> <p>Signal processing program module for optimization of signal smoothing for the reduction of inherent noise of humidity measurements, that improves accuracy, and reproducibility. Built-in uncertainty of measurement calculation.</p> <p>21 CFR Part 11 compliant</p> <p>1 workstation license</p>	2,990	2 392
100-PBE-007-024F	PyroButton-SQL/M 1.2 - Meteorological T/H Management 2-5 workstation license	2,392 /license	1 914 /license
100-PBE-007-024G	PyroButton-SQL/M 1.2 - Meteorological T/H Management 6-10 workstation license	1,914 /license	1 531 /license
100-PBE-007-024H	PyroButton-SQL/M 1.2 - Meteorological T/H Management 11-25 workstation license	1,435 /license	1 148 /license
100-PBE-007-024I	PyroButton-SQL/M 1.2 - Meteorological T/H Management 26-50 workstation license	1,148 /license	919 /license
100-PBE-007-024J	PyroButton-SQL/M 1.2 - Meteorological T/H Management 51-100 workstation license	919 /license	735 /license
100-PBE-007-024K	PyroButton-SQL/M 1.2 - Meteorological T/H Management 101+ workstation license	735 /license	588 /license
100-PBE-007-025E	<p>PyroButton-SQL/V 1.2 - Validation Management of Temperature/Humidity Software: capable of both temperature & humidity measurements. Includes: EQUAL Validation modules; suitable for for the temperature and/or temperature/humidity Validation, Validation Maintenance, Qualification, & Re-Qualification of incubators, refrigerators, freezers, warehouses, processing, & quality control facilities.</p> <p>Built-in automatic correction of measurement based on calibration curves.</p> <p>Consistent quality management relative to validation requirements. Consistent Performance Qualification & re-qualification.</p> <p>21 CFR Part 11 compliant</p> <p>1 workstation license</p>	4,550	3 640
100-PBE-007-025F	PyroButton-SQL/V 1.2 - Validation Management of Temperature/Humidity 2-5 workstation license	3,640 /license	2 912 /license
100-PBE-007-025G	PyroButton-SQL/V 1.2 - Validation Management of Temperature/Humidity 6-11 workstation license	2,912 /license	2 330 /license
100-PBE-007-025H	PyroButton-SQL/V 1.2 - Validation Management of Temperature/Humidity 11-25 workstation license	2,330 /license	1 864 /license
100-PBE-007-025I	PyroButton-SQL/V 1.2 - Validation Management of Temperature/Humidity 26-50 workstation license	1,864 /license	1 491 /license
100-PBE-007-025J	PyroButton-SQL/V 1.2 - Validation Management of Temperature/Humidity 51-100 workstation license	1,491 /license	1 193.- /license

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
100-PBE-007-025K	PyroButton-SQL/V 1.2 - Validation Management of Temperature/Humidity 101+ workstation license	1,193 /license	955 /license
100-PBE-007-026E	DUMAS-SQL - Particulate Matter Measurement Software: Integrates Particulate Matter analytical information management with data-acquisition of the measurement process, including environmental control & monitoring of the analytical isolator and weighing automation of the filter-collector. 21 CFR Part 11 compliant 1 workstation license	4,550	3 640
100-PBE-007-026F	DUMAS-SQL - Particulate Matter Measurement Software 2-5 workstation license	3,640 /license	2 912 /license
100-PBE-007-026G	DUMAS-SQL - Particulate Matter Measurement Software 6-11 workstation license	2,912 /license	2 330 /license
100-PBE-007-026H	DUMAS-SQL - Particulate Matter Measurement Software 11-25 workstation license	2,330 /license	1 864 /license
100-PBE-007-026I	DUMAS-SQL - Particulate Matter Measurement Software 26-50 workstation license	1,864 /license	1 491 /license
100-PBE-007-026J	DUMAS-SQL - Particulate Matter Measurement Software 51-100 workstation license	1,491 /license	1 193.- /license
100-PBE-007-026K	DUMAS-SQL - Particulate Matter Measurement Software 101+ workstation license	1,193 /license	955 /license
100-PBE-007-008	IQ-OQ-PQ verification protocol for PyroButton-SQL software.	850	680
100-PBE-007-022	PyroButton-SQL software validation document	2,125	1 700
100-PBE-007-009	21 CFR Part 11 verification protocol for PyroButton-SQL software.	850	680
100-PBE-007-010	Good Data-logger Practices-Basics Competency training refresher course. SCORM compliant (see, http://cactus.opulus.com)	350	280
100-PBE-008-100	PyroCAD software - Computer Aided Temperature Map for Critical Control Point (CCP) analysis. Validation Plan, Challenge Studies, & Simulation software for temperature measurement of closed compartments, such as Storage Facilities, Transportation Containers, Incubators, Refrigerators, Sterilizers, and Depyrogenators.	2,295	1 836
Calibrators & Calibration Services			
100-ICE-020-100	PBC-Temp - Temperature Calibrator System for simultaneous calibration of 20 PyroButtons (-20°C ... +130°C). Can be integrated to PyroButton softwares for fully automatic correction. (see, Application)	22,720	17 820
100-ICE-021-100	PBC-Hum - Humidity Calibrator System for simultaneous calibration of 20 PyroButtons (0%RH ... 100%RH). Can be integrated to PyroButton softwares for fully automatic correction. (see, Application)	27,835	22 270
090-PPE-015-000	PyroDisk-PB5 - 21 CFR Part 11 compliant product. It is a Self-powered 5-sensor temperature verification system for incubators of microplate readers with sophisticated graphics capabilities, statistics, SQL & Excel compatibility. (see, Application)	1,775	1 420

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
090-PPE-019-000	PyroDisk-XT24 - 21 CFR Part 11 compliant product. It is a high performance 24 channel (8 internal + 16 external) temperature calibration system for PCR/thermal cyclers, incubators, microplate photometers, and microplate incubators. The integrated software is based on SQL database, sophisticated graphics, SQL & SPL. (see, Application)	3,780 /each	3 024 /each
090-PPE-020-100	IQ-OQ-PQ verification protocol for PyroDisk software.	980	784
090-PPE-021-100	PyroDisk software validation document	2,750	2 200
090-PPE-022-100	21 CFR Part 11 verification protocol for PyroDisk software.	980	784
100-ICE-030-100	Temperature calibration service of PBC-Temp calibrator	1,495 /each	1 196 /each
100-ICE-031-100	Humidity calibration service of PBC-Hum calibrator	2,495 /each	1 996 /each
100-ICE-032-100	Temperature calibration service of PyroDisk-PB5	375	300
100-ICE-034-100	Temperature calibration service of PyroDisk-XT24	835	668
100-ICE-001-100A	PyroButton data-logger - re-calibration at 1-2 <u>temperature</u> points. Includes CD or Web-download update of the calibration correction factors and uncertainty of measurement.	45 /point	36 /point
100-ICE-001-100B	PyroButton data-logger - re-calibration at 3-5 <u>temperature</u> points. Includes CD or Web-download update of the calibration correction factors and uncertainty of measurement.	35 /point	28 /point
100-ICE-001-100C	PyroButton data-logger - re-calibration at 6-10 <u>temperature</u> points. Includes CD or Web-download update of the calibration correction factors and uncertainty of measurement.	30 /point	24 /point
100-ICE-003-100A	PyroButton data-logger - re-calibration at 1-2 <u>humidity</u> points. Includes CD or Web-download update of the calibration correction factors and uncertainty of measurement.	90 /point	72 /point
100-ICE-003-100B	PyroButton data-logger - re-calibration at 3-5 <u>humidity</u> points. Includes CD or Web-download update of the calibration correction factors and uncertainty of measurement.	70 /point	56 /point
100-ICE-003-100C	PyroButton data-logger - re-calibration at 6-10 <u>humidity</u> points. Includes CD or Web-download update of the calibration correction factors and uncertainty of measurement.	60 /point	48 /point
100-ICE-040-100	PyroButton-G calibrated data-logger loan for the period of re-calibration	15 /each	12 /each
100-ICE-041-100	PyroButton-L calibrated data-logger loan for the period of re-calibration	30 /each	24 /each
100-ICE-042-100	PyroButton-T calibrated data-logger loan for the period of re-calibration	40 /each	32 /each
100-ICE-043-100	PyroButton-TH calibrated data-logger loan for the period of re-calibration	50 /each	40 /each
100-ICE-050-100	PCC 101 Basic calibration service for Thermal Cyclers Includes CD or Web-download update of the Certificate of Calibration, calibration correction factors and uncertainty of measurement.	500 /each	400 /each

Product Code	Description	Non-VAT Price (\$)	Non-VAT Price (€)
Knowledge Base			
100-PBE-007-010	Good Data-logger Practices competency training course/test Refresher CD - SCORM compatible; for more info, see, http://cactus.opulus.com 21 CFR Part 11 compliant	350 /each	280 /each
100-PBE-007-011	Good Data-logger Practices competency training course/test On-line Web CACTUS system; for more info, see, http://cactus.opulus.com 21 CFR Part 11 compliant	250 /year	200 /year
100-PBE-007-012	Good Data-logger Practices competency training course/test with database & CACTUS Desktop Edition system includes competency metrics, training scheduling, training tracking, and many more; for detailed info, see, CACTUS OS 21 CFR part 11 compliant	2,325 /each	1 860 /each
100-PBE-007-013	On-line SOP & SOP competency training/exam for temperature monitoring of Transportation Containers, (see, http://cactus.opulus.com) & SOP warehouse 21 CFR part 11 compliant	455 /each	364 /each
100-PBE-007-014	On-line SOP & SOP competency training/exam for temperature monitoring of Storage facilities, (see, http://cactus.opulus.com) & SOP warehouse 21 CFR part 11 compliant	455 /each	364 /each
100-PBE-007-015	Preliminary - User Requirement Specification for Storage Facilities (see, http://cactus.opulus.com) & SOP warehouse	1,565 /each	1 252 /each
100-PBE-007-016	Preliminary - User Requirement Specification for Transportation (see, http://cactus.opulus.com) & SOP warehouse	1,565 /each	1 252 /each
PyroLogger Self-powered temperature monitoring system			
090-PLE-008-100	PyroLogger-HT multichannel Self-powered temperature monitoring system (up to 500°C)	6,275	5 020

Shipping conditions

Standard shipping time: 4-6 weeks.