

BTX Generator Footswitch

INSTRUCTIONS
MODEL 1250FS



IMPORTANT: Read all Instructions, Warnings and Precautions prior to use. FOR RESEARCH PURPOSES ONLY

The BTX Generator Footswitch is designed to allow hands-free operation of the ECM® 830 Generator. The footswitch functions identical to the Start button on the front panel of the instrument. Once all the parameters are dialed in, simply press and release the footswitch or Start button to activate pulse delivery or abort a pulse sequence.

The BTX Generator Footswitch is designed for used with BTX ECM 830 Square Wave Generator. Versions 1.08 and beyond have software that supports the footswitch operation, so no further modification of the generator is required. If you have a version prior to V1.08, please contact BTX Customer Service at 1-800-289-2465 or cust@genetronics.com for further instructions. Please have the instrument serial number (on the back panel) ready to expedite the process.

ELECTRICAL & TECHNICAL SPECIFICATIONS

Environmental Capabilities

Operating Temperature:	0° - 40° C
Storage Temperature:	-25° - 60° C
Intended Use:	Indoor Use
Relative Humidity:	30-75%
Storage Humidity:	10-100% (non-condensing)
Maximum Altitude:	2000m (6562 ft)
Pollution Degree:	II
Insulation Category:	CAT I

Physical Characteristics

Footprint:	4.5" x 3.5" x 2" (W-D-H)
Weight:	< 2 lbs
Cord Length:	10 ft

Compatibility

Generators: ECM 830 with Software Version 1.08 and beyond

DEFINITION OF SYMBOLS



Warning – Refer to instructions for use in order to find the nature of any potential hazard and any actions which have to be taken.



Caution – Risk of electric shock. Dangerous voltage that could result in injury or loss of life.



SAFETY GUIDELINES

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it. To avoid potential hazard, use this product only as specified. Only qualified BTX personnel should perform service procedures.



Do not use with frayed or damaged cord / connector.

Do not use Footswitch on any equipment other than the ECM-830CE.

Avoid water on the floor when using the footswitch.

Keep hands clear of footswitch during operation.

Do not operate in wet/damp conditions.

INSTRUCTIONS FOR USE

1. Connect the footswitch to the SmartLink™ port on the front panel of the ECM 830. Make sure the orientation of the connector on the footswitch cable matches that of the SmartLink™ orientation (The flat side of the connector head should face left).
2. Lay the footswitch flat on the floor close to where the operator will stand.
3. The footswitch function is identical to the Start button on the front panel of the instrument. Once all the parameters are set, simply press the footswitch or Start button to activate pulse delivery or abort a pulse sequence.

Note: The BTX Generator Footswitch is designed to allow hands-free operation of the generator.

TROUBLESHOOTING

Please contact BTX Technical Service at any of the numbers listed on the following page in the event of any failure.

WARRANTY

The BTX Instrument Division of Genetronics, Inc. (Genetronics) warrants that the Footswitch is free of defects at time of delivery to the user. If a defect is found, product may be returned for exchange only within a period of 90 days from time of delivery from BTX or an authorized Genetronics Distributor. If any defects covered by this warranty appear within the above period, Genetronics shall have the option of repairing or replacing the product at its expense. Such repair or replacement shall be the customer's exclusive remedy for breach of warranty or for negligence. This warranty does not extend to any product which has been (a) subjected to misuse, neglect, accident or abuse, (b) repaired or altered by anyone other than Genetronics without Genetronics' express and prior approval, (c) used in violation of instructions furnished by the BTX Instrument Division of Genetronics, Inc. Manufacturer shall not be liable for any special or consequential damages or for loss, damage or expense (whether or not caused by or resulting from Manufacturer's negligence) directly or indirectly arising from use of the product sold here under either separately or in combination with any other product or from any other cause.

The above warranty shall be in lieu of and excludes all other expressed or implied warranties of merchantability, or fitness for any purpose, or otherwise. Without limiting the generality of the foregoing,

Manufacturer shall not be liable for any claims of any kind whatsoever, as to the product delivered or for non-delivery of equipment, and whether or not based on negligence.

Manufacturer will correct any malfunction not caused by operator abuse at no charge for parts and labor. All service under the warranty will be made at the Genetronics, Inc. San Diego, California, USA facilities or at another location approved by Genetronics, Inc. Owner will ship product prepaid to San Diego, California. Manufacturer will return the product, after servicing, freight prepaid to owner's address.

Warranty is VOID if the product is changed in any way from its original factory design or if repairs are attempted without written authorization by Manufacturer.

Warranty is VOID if parts or connections not manufactured by Manufacturer are used with a BTX product.

TECHNICAL & CUSTOMER SERVICE

BTX[®] is the ultimate resource for technical information on the use of high voltage electric fields for performing high efficiency cell fusion, embryo manipulation, gene transfer, bacterial transformation and general electroporation of molecules and drugs into cells. We constantly track and monitor all scientific publications in this area. Our Technical Service group extracts and enters pertinent information, such as results and parameters from these papers into a Database Management System. The resultant database can be accessed and searched on any combination of the field identifiers.

For technical assistance or information, contact the BTX Instrument Division of Genetronics, Inc. Technical Service group:

Phone: 1-800-597-0580 1-858-597-6006

Fax: 1-858-597-9594

E-mail: tech@genetronics.com

If outside the United States and Canada: call 858-597-6006 or contact your nearest BTX Distributor.

BTX[®]

A Division of Genetronics, Inc.

11199 Sorrento Valley Road

San Diego, CA 92121-1334 U.S.A.

For any inquiry or request for repair service, contact the BTX Instrument Division of Genetronics, Inc. Customer Service group in writing or by the following:

Phone: 1-800-289-2465 1-858-597-6006

Fax: 1-858-597-9594

E-mail: cust@genetronics.com

If outside the United States and Canada, call 1-858-597-6006 or contact your nearest BTX Distributor.

ORDERING INFORMATION

Model	Description	Part Number
1250FS	Footswitch - hands-free remote control	06-003029-01

The BTX Generator Footswitch complies with EC Safety Directive, EN61010-1:1993+A2:95.