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ANSI X12 850 Purchase Order Specifications

The American National Standards Institute (ANSI) and the Accredited Standards Committee (ASC) define this transaction as follows: “The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. It should not be used to convey purchase order changes or purchase order acknowledgment information.”

This document lists the accepted ANSI X12 850 Purchase Order layout used by the Medtronic. The ANSI X12 version of the purchase order transaction created is **4010**. The 850 Purchase Order is an outbound transaction that allows Medtronic users to transmit purchase orders to their suppliers.

The following is an example of the typical format used when communicating the ANSI X12 850 transaction set. It is important to note that multiple 850 transaction sets may be contained within each valid X12 file.

Header

ISA - Interchange Control Header

ST - Transaction Set Header

BEG - Begins the Purchase Order Transaction

N9 - Reference Identification

DTM - Date/Time

MSG - Message Text

N1 - Organization Name

N3 - Address Information

N4 - Geographic Location

PER - Administrative Contact

Detail

PO1 - Purchase Order Item Data

PID - Product/Item Description

REF - Reference Numbers

MSG - Message Text

Total

CTT - Transaction Totals

SE - Transaction Set Trailer

IEA - Interchange Control Trailer

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850 Purchase Order Segment Structure by Group / Loop

Segment/Element Usage Legend:

M = Mandatory segment or element; required for successful Medtronic system processing.
 O = Optional segment or element; may be helpful but not required for successful processing.
 X = Conditional element; existence is conditional upon another segment or element.

Transaction Set Header	Segment ID	Name	Usage	Max
	ST	Transaction Set Header to identify the Purchase Order set	M	1
	BEG	Beginning Segment for Purchase Orders	M	1
	N9	Identifies Date/Time and Message information	O	1
	DTM	Date and Time the transaction was created	M	1
	MSG	Message Text / To provide special Instructions for entire transaction set	O	50
N1 Loop	N1	Name segment	O	1
	N3	Address information	O	1
	N4	City, State and Zip	O	1
	PER	Administrative Communication Contact	O	1
Line Item Loop	Segment ID	Name	Usage	Max
May repeat 100,000 times	PO1	Purchase Order Baseline Item Data	M	1
PID Loop	PID	Product/Item Description	O	1
	REF	Reference Numbers for Cost Allocation, Purchase Requisition Number and Bin Location	O	3
	MSG	Message Text / To provide special Instructions for line items	O	50
	CTT	Transaction Totals	M	1
	SE	Transaction Set Trailer	M	1

Segment / Element Detail Information

Transaction Set Header

The following information identifies the elements used in the 850 Purchase Order.

ST - Transaction Set Header

Example: ST*850*191154910

Element	Name	Usage	Min/Max Length	Notes
ST-01	Transaction Set Identifier Code	M	3/3	Transmitted code(s):

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				'850' - Purchase Order
ST-02	Transaction Set Control Number	M	4/9	Control number should match the SE-02 element.

BEG - Begins the Purchase Order Transaction

Example: BEG*00*SA*144**20000616

Element	Name	Usage	Min/Max Length	Notes
BEG-01	Transaction Set Purpose Code	M	2/2	Transmitted code(s): '00' - New Purchase Order
BEG-02	Purchase Order Type Code	M	2/2	Transmitted code(s): 'CN' = 'ConsignmentOrder' 'NE' = 'NewOrder' 'SA' = 'StandAloneOrder' 'RO' = 'RushOrder' 'EO' = 'EmergencyOrder'
BEG-03	Purchase Order Number	M	1/16	
BEG-04	Release Number	O	1/30	
BEG-05	Purchase Order Date	M	8/8	Date in CCYYMMDD format.
BEG-06	Contract Number	O	1/30	

N9 – Reference Identification

Example: N9*PO*144

Element	Name	Usage	Min/Max Length	Notes
N9-01	Reference Identification Qualifier	M	2/2	Transmitted code(s): 'PO' – Purchase Order
N9-02	Reference Identification	M	1/16	Purchase Order Number

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DTM - Date/Time Reference

Example: DTM*097*20000616*1549

Element	Name	Usage	Min/Max Length	Notes
DTM-01	Date/Time Qualifier	M	3/3	Transmitted code(s): '097' - Transaction create date
DTM-02	System Date	X	8/8	Date in CCYYMMDD format.
DTM-03	System Time	X	4/4	Date in HHMM format.

MSG - Message Text

Example: MSG*PLEASE SHIP ASAP
MSG*NET 30 DAYS

Element	Name	Usage	Min/Max Length	Notes
MSG-01	Free form message	O	1/264	Special instructions and purchase order terms and conditions.

N1 - Name of Organization

Example: N1*BY*GENERAL HOSPITAL*91*123456
N1*BT*GENERAL SUPPLIES*91*55123456
N1*ST*WEST PARK*91*77756

Element	Name	Usage	Min/Max Length	Notes
N1-01	Entity ID Code	M	2/2	Transmitted code(s): 'BY' - Buying Party 'SE' - Selling Party 'BT' - Bill to Party 'ST' - Ship to 'VN' - Vendor
N1-02	Name of buying party	M	1/35	Communicator Name
N1-03	ID Code Qualifier	O	2/2	Transmitted code(s): '91' - Assigned by Seller
N1-04	ID Code	X	1/16	Vendor Customer Number

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N3 - Address Information of the N1 Loop

Example: N3*1000 Pacer Drive*SUITE 400

Element	Name	Usage	Min/Max Length	Notes
N3-01	Street address	M	1/30	
N3-02	Street address	O	1/30	

N4 - Geographic Location of the N1 Loop

Example: N4*CHICAGO*IL*60020

Element	Name	Usage	Min/Max Length	Notes
N4-01	City Name	O	2/18	
N4-02	State or Province Code	O	2/2	
N4-03	Postal Code/Zip Code	O	4/9	

PER - Administrative Contact

Example: PER*SR*BARRY WILSON*TE*8475374800

Element	Name	Usage	Min/Max Length	Notes
PER-01	Contact Function Code	M	2/2	Transmitted code(s): 'BD' = 'BuyerNameorDepartment' 'SR' = 'SalesRepresentativeOrDepartment' 'CR' = 'CustomerRelations' 'OC' = 'OrderContact' 'DC' = 'DeliveryContact' 'IC' = 'InformationContact' 'OD' = 'OrderDepartment' 'ZZ' = 'MutuallyDefined' 'EB' = 'EnteredBy' 'RQ' = 'Requestor'
PER-02	Name	M	1/30	Name of the Contact
PER-03	Communication Number Qualifier	O	2/2	Transmitted code(s): 'TE' = 'TelephoneNumber' 'FX' = 'FaxNumber' 'EM' = 'EmailAddress'
PER-04	Telephone Number	X	1/25	Telephone number of the Contact

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Line Item Loop

PO1 - Purchase Order Item Data

Example:

PO1*1*1*CS*0.01**IN*7237823*VC*7219D*SN*BRD951028817

Element	Name	Usage	Min/Max Length	Notes
PO1-01	Assigned Identifier	O	1/3	Purchase order line number
PO1-02	Quantity Ordered	X	1/5	If 03 is present, then 02 is required.
PO1-03	Unit of Measure	O	2/2	Transmitted code(s): 'EA' – Each 'BX' – Box 'CT' – Carton 'PK' – Package 'CS' - Case
PO1-04	Item Unit Price	X	1/10	Pricing sent in 2 decimal places.
PO1-06	Product/Service ID Qualifiers	X	2/2	Transmitted code(s): MF, MG, VC, BP, IN See chart below for descriptions of each. If either 06 or 07 is present, then the other is required.
PO1-07	Product/Service IDs	O	1/48	
PO1-08	Product/Service ID Qualifiers	X	2/2	If either 08 or 09 is present, then the other is required.
PO1-09	Product/Service IDs	O	1/48	
PO1-10	Product/Service ID Qualifiers	X	2/2	If either 10 or 11 is present, then the other is required.
PO1-11	Product/Service IDs	O	1/48	
PO1-12	Product/Service ID Qualifiers	X	2/2	If either 12 or 13 is present, then the other is required.
PO1-13	Product/Service IDs	O	1/48	
PO1-14	Product/Service ID Qualifiers	X	2/2	If either 14 or 15 is present, then the other is required.
PO1-15	Product/Service IDs	O	1/48	
PO1-16	Product/Service ID Qualifiers	X	2/2	If either 16 or 17 is present, then the other is required.
PO1-17	Product/Service IDs	O	1/48	
PO1-18	Product/Service ID Qualifiers	X	2/2	If either 18 or 19 is present, then the other is required.
PO1-19	Product/Service IDs	O	1/48	
PO1-20	Product/Service ID Qualifiers	X	2/2	If either 20 or 21 is present, then the other is required.

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PO1-21	Product/Service IDs	O	1/48	
PO1-22	Product/Service ID Qualifiers	X	2/2	If either 22 or 23 is present, then the other is required.
PO1-23	Product/Service IDs	O	1/48	
PO1-24	Product/Service ID Qualifiers	X	2/2	If either 24 or 25 is present, then the other is required.
PO1-25	Product/Service IDs	O	1/48	

Qualifier	ANSI Definition	McKessonHBOC Definition	Max. Length
MF	Manufacturer	Manufacturer LIC	4
MG	Manufacturer's Part Number	Manufacturer Catalog Number	16
VC	Vendor's (seller's) Catalog Number	Vendor Catalog Number	16
BP	Buyer's Part Number	Buyer Part (Item Number)	5
IN	Buyer's Item Number	Item Number (Hospital Number)	10
SN	Serial Number	Serial Number	15
LT	Lot Number	Lot Number	15

*Only 1 Serial or Lot Number to be transmitted per PO1 segment

PID - Product/Item Description

Example: PID*F****PCD 100ML VIALS

Element	Name	Usage	Min/Max Length	Notes
PID-01	Item Description Type	M	1/1	Transmitted code(s): 'F' - Free form text
PID-05	Description	M	1/80	

REF - Reference Numbers

Example: REF*CA*1000*1- WEST

Element	Name	Usage	Min/Max Length	Notes
REF-01	Reference Identification Qualifier	M	2/3	Transmitted code(s): 'CA' - Cost Allocation 'RQ' - Requisition Number 'CR' - Client Reference Number 'EJ' - Patient Account Number 'ZZ' - Implanting Physician
REF-02	Reference Identification	X	1/30	
REF-03	Description	X	1/80	

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MSG - Message Text

Example: MSG*PLEASE SHIP THIS ITEM ASAP

MSG*SN:BRD8327495 BILL ONLY PT:SMITH,JOHN

Element	Name	Usage	Min/Max Length	Notes
MSG-01	Free form message	O	1/264	Special instructions for purchase order line items

Using this message segment

For those systems that are not able to map required information to EDI elements, Medtronic allows the use of line-item notes. The following describes how information should be specified in a message segment so that Medtronic will be able to automatically process the information. The information may be in any sequence and must contain at least one space between items.

Product Serial/ Lot Numbers: Serial and lot numbers may be contained in the note segment provided that there is only one number and it is prefixed with one of the following prefixes: **SN**-, **SN-**, or **S/N-**. Example: SN:BRD892743.

Patients Name: The patients name should be prefixed with **PT:**. and there should be no spaces in the patients name. Example: PT:SMITH,JOHN.

Bill Only, Do not Replace Product: Placing the text **BILL ONLY** in the note will cause the product to only be billed and will not replace consignment inventory.

Transaction Set Trailer

CTT - Transaction Totals

Example: CTT*1*1

Element	Name	Usage	Min/Max Length	Notes
CTT-01	Total number of purchase order line items	M	1/6	
CTT-02	Hash total of the number of units ordered	O	1/10	

SE - Transaction Set Trailer

Example: SE*24*191154910

Element	Name	Usage	Min/Max Length	Notes
SE-01	Number of Segments Included	M	1/6	The number of segments between ST and SE inclusive.
SE-02	Transaction Set Control Number	M	4/9	Same as ST-02

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Sample Data:

ISA*00* *00* * ZZ*5489002 *01*197607336 *980710*154 9*U*00400*191154908*0*P*|
GS*PO*5489002*197607336*20000616*1549*191154909*X*004010
ST*850*191154910
BEG*00*SA*144**20000616
N9*PO*144
DTM*097*20000616*1549
MSG*PLEASE SHIP ASAP
MSG*NET 30 DAYS
N1*BY*GENERAL HOSPITAL*91*123456
N1*BT*GENERAL SUPPLIES*91*55123456
N1*ST*WEST PARK*91*77756
N3*1000 Pacer Drive*SUITE 400
N4*CHICAGO*IL*60020
PER*SR*BARRY WILSON*TE*8475374800
PO1*1*1*CS*0.01**IN*7237823*VC*7219D*SN*BRD951028817
PID*F****PCD 100ML VIALS
REF*CA*1000*1-WEST
SDQ*CS*57*1000*1
MSG*PLEASE SHIP THIS ITEM ASAP
MSG*SN:BRD8327495 BILL ONLY PT:SMITH,JOHN
CTT*1*1
SE*24*191154910
GE*1*191154909
IEA*1*191154908