

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Discussed at the following meetings:

05/03/2000
 06/23/2000
 06/28/2000 (move Meter ID in conjunction with R98013)
 08/11/2000

mapped to ASC X12 867; used version 4030 as a base X12 standard

GISB Measurement Information (2.4.5)

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
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Heading:							
0100	ST		M/1				
0200	BPT		M/1				
		BPT01 - 353	M	00-Original		ID	2/2
		BPT03 - 373	M		The date the statement was generated.	DT	8/8
		BPT04 - 755	O	MV - Metered Volumes		ID	2/2
0500	DTM		O/10	(1st occurrence)	For GISB, this segment is mandatory.		
		DTM01 - 374	M	434 - Statement		ID	3/3
		DTM05 - 1250	X	DT - CCYYMMDDHHMM	mark as must use	ID	2/3
		DTM06 - 1251	X	Statement Date/Time (M)	mark as must use	AN	1/35
0500	DTM			(2nd occurrence)			
		DTM01 - 374	M	582		ID	3/3
		DTM05 - 1250	X	CM - CCYYMM	mark as must use	ID	2/3
		DTM06 - 1251	X	Accounting Period (SO)	mark as must use	AN	1/35
		N1 loop	5	(1st occurrence)			
0800	N1		O/1				
		N101 - 98	M	P1		ID	2/3
		N103 - 66	X	1	mark as must use	ID	1/2
		N104 - 67	X	Preparer ID (M)	mark as must use	AN	2/17 *
		PER loop	>1				
1300	PER						

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Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		PER01 - 366	M	IC		ID	2/2
		PER02 - 93	O	Contact Person (Name) (M)	mark as must use	AN	1/35 *
		PER03 - 365	X	TE	mark as must use	ID	2/2
		PER04 - 364	X	Contact Person (Phone) (M)	mark as must use	AN	1/80 *
		N1 loop	5	(2nd occurrence)			
0800	N1		O/1				
		N101 - 98	M	40		ID	2/3
		N103 - 66	X	1	mark as must use	ID	1/2
		N104 - 67	X	Statement Recipient ID (M)	mark as must use	AN	2/17 *
Detail							
		PTD loop	>1				
0100	PTD		M/1				
		PTD01 - 521	M	FG		ID	2/2
pend- ing	LCD		O/2	(1st occurrence)	[LCD on DMR 16] mark as must use		
		LCD02 - 98	O	LCN- Gas Nomination Location	mark as must use	ID	2/3
		LCD05 - 66	X	DR - GISB PI/DRN SV - TSP proprietary code	mark as must use	ID	1/2
		LCD06 - 67	X	Location/Location Proprietary Code (M)	mark as must use	AN	2/17 *
pend- ing	LCD		O/1	(2nd occurrence)	[LCD on DMR 16] mark as must use		
		LCD02 - 98	O	MTR - Meter	[MTR code new DMR 18] mark as must use	ID	2/3
		LCD05 - 66	X	SV - service provider number	mark as must use	ID	1/2
		LCD06 - 67	X	Meter ID (SO)	[pending with R98068] mark as must use	AN	2/17 *
pend- ing	LQ		O/>1		[LQ on DMR 16]		
		LQ01-1270	O	EAR - Statement Basis	[on x12dmr10] mark as must use	ID	1/3
		LQ02-1271	X	Statement Basis (M) AC, ES, RV	mark as must use	AN	1/30

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Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
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Sub-detail

		QTY loop	>1				
1100	QTY		O/1				
		QTY01-673	M	H3 - Energy Quantity	[on x12dmr12] mark as must use	ID	2/2
		QTY02-380	X	Energy Quantity (M)	mark as must use	R	1/15
1600	MEA		O/40				
		MEA03-739	O	Measured Volume (M)	mark as must use	R	1/10 *
		MEA04-355	X	TZ	mark as must use	ID	2/2
2100	DTM						
		DTM01 - 374	M	405 - Production		ID	3/3
		DTM05 - 1250	X	RD8 - CCYYMMDD- CCYYMMDD RDT - CCYYMMDDHHMM- CCYYMMDDHHMM	mark as must use	ID	2/3
		DTM06 - 1251	X	Beginning Flow Date, Beginning Flow Time, Ending Flow Date, Ending Flow Time (M)	mark as must use	AN	1/35
		LM loop	>1				
2600	LM		O/1				
		LM01-559	M	GI - GISB	[GI new DMR 17]	ID	2/2
2700	LQ		O/100				
		LQ01-1270	O	AJT - Adjustment Type	[AJT on DMR 10] mark as must use	ID	1/3
		LQ02-1271	X	Adjustment Type (C) ARN, BEQ, DEE, ECF, EQC, ERA, ICA, ICT, IEC, IGQ, IGS, IPI, LNS, MCN, MEF, MNB, MVC, QRL, VEN	mark as must use	AN	1/30
SE	SE		M/1				

* GISB Min/Max column will contain an * when the GISB values are different than the ANSI ASC X12 values

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

New items pending from DISA for other documents that also affect this document:

in DMR 10:

Add the following new code values and definitions to data element 1270 and link to Code Source 293 (Gas Industry Standards Board (GISB)):

AJT - Adjustment Type

EAR - Statement Basis

New items requested from DISA in conjunction with this document:

DMR 12:

(add to existing DMR 12 which contains new code values for other documents)

new code values and definitions for data element 673

H3 - Energy Quantity

DMR 16:

add LCD segment to Table 1, usage Optional, Max Use 2

add LCD segment to Table 2, PTD loop position 0100, usage Optional, Max Use 2

add LQ segment to Table 2, PTD loop position 0100, usage Optional, Max Use >1

DMR 17:

LM01 (559) for GISB:

GI - Gas Industry Standards Board (GISB)

DMR 18:

new code values and definitions for data element 98 (used in LCD02):

MTR - Meter

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

GISB Measured Volume Audit Statement (2.4.6)

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
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Heading:

0100	ST		M/1				
0200	BPT		M/1				
		BPT01 - 353	M	Statement Type (M) 00, 05, 14		ID	2/2
		BPT03 - 373	M		The measured volume audit statement issue date.	DT	8/8
		BPT04 - 755	O	R5 - Technical Information		ID	2/2
0500	DTM		O/10		For GISB, this segment is mandatory.		
		DTM01 - 374	M	434 - Statement		ID	3/3
		DTM05 - 1250	X	DT - CCYYMMDDHHMM	mark as must use	ID	2/3
		DTM06 - 1251	X	Statement Date/Time (M)	mark as must use	AN	1/35
700	PER						
		PER01 - 366	M	IC		ID	2/2
		PER02 - 93	O	Contact Person (Name) (M)	mark as must use	AN	1/35 *
		PER03 - 365	X	TE	mark as must use	ID	2/2
		PER04 - 364	X	Contact Person (Phone) (M)	mark as must use	AN	1/80 *
pend- ing	LCD		O/2	(1st occurrence)	[LCD on DMR 16]		
		LCD02 - 98	O	LCN- Location	mark as must use	ID	2/3
		LCD05 - 66	X	DR - GISB PI/DRN	mark as must use	ID	1/2
		LCD06 - 67	X	PI Data Reference Number (M)	mark as must use	AN	2/17 *
pend- ing	LCD		O/2	(2nd occurrence)	[LCD on DMR 16]		
		LCD02 - 98	O	RL - Reporting Location	mark as must use	ID	2/3
		LCD05 - 66	X	SV - proprietary number	mark as must use	ID	1/2
		LCD06 - 67	X	Device Station Number (M)	mark as must use	AN	2/17 *
		N1 loop	5	(1st occurrence)			
0800	N1		O/1				
		N101 - 98	M	DW		ID	2/3
		N103 - 66	X	1	mark as must use	ID	1/2

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Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		N104 - 67	X	Downstream Party (SO)	mark as must use	AN	2/17 *
		N1 loop	5	(2nd occurrence)			
0800	N1		O/1				
		N101 - 98	M	US		ID	2/3
		N103 - 66	X	1	mark as must use	ID	1/2
		N104 - 67	X	Upstream Party (SO)	mark as must use	AN	2/17 *
		N1 loop	5	(3rd occurrence)			
0800	N1		O/1				
		N101 - 98	M	OP		ID	2/3
		N103 - 66	X	1	mark as must use	ID	1/2
		N104 - 67	X	Meter Operator (SO)	mark as must use	AN	2/17 *
Detail							
		PTD loop	>1				
0100	PTD		M/1				
		PTD01 - 521	M	FG - Flowing Gas Information		ID	2/2
0200	DTM		O/10		For GISB, this segment is mandatory.		
		DTM01 - 374	M	007 - Effective		ID	3/3
		DTM05 - 1250	X	D8 - CCYYMMDD	mark as must use	ID	2/3
		DTM06 - 1251	X	Physical Meter Effective Date (M)	mark as must use	AN	1/35
0300	REF		O/20		For GISB, this segment is conditional		
		REF01 - 128	M	CHR - Chromatograph Identifier	[new DMR 20] mark as must use	ID	2/3
		REF02 - 127	X	Chromatograph (C)	mark as must use	AN	1/30*
pend- ing	LCD		O/2		LCD on DMR 16]		
		LCD02 - 98	O	MTR - Meter	[on DMR 18] mark as must use	ID	2/3
		LCD05 - 66	X	SV - service provider number	mark as must use	ID	1/2
		LCD06 - 67	X	Meter ID (M)	mark as must use	AN	2/17 *
pend- ing	LQ		O/>1	(1st occurrence)	For GISB, this segment is mandatory		

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Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		LQ01-1270	O	MT - Meter Type	[new DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Meter Type (M) OC, OM, DC, DM, FD	mark as must use	AN	1/30
pending	LQ		O/>1	(2nd occurrence)			
		LQ01-1270	O	MS - Meter Status	[new DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Meter Status (M) A, R, S	mark as must use	AN	1/30
pending	LQ		O/>1	(3rd occurrence)			
		LQ01-1270	O	TL - Tap Location	[new DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Tap Location (C) DT, UT	mark as must use	AN	1/30
pending	LQ		O/>1	(4th occurrence)			
		LQ01-1270	O	TA - Tap Type	[new DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Tap Type (C) PT, FT	mark as must use	AN	1/30
pending	MEA		O/>1	(1st occurrence)	[MEA new DMR 19]		
		MEA02 - 738	O	DLC - Dial Count	[new DMR 19] mark as must use	ID	1/3
		MEA03 - 739	X	Number Dials (C)	mark as must use	R	1/10 *
pending	MEA		O/>1	(2nd occurrence)			
		MEA02 - 738	O	VOL - Volume	mark as must use	ID	1/3
		MEA03 - 739	X	Volume Cycle (C)	mark as must use	R	1/10 *
pending	MEA		O/>1	(3rd occurrence)			
		MEA02 - 738	O	PU - Pressure Base	mark as must use	ID	1/3
		MEA03 - 739	X	Reporting Pressure Base (M)	mark as must use	R	1/10 *

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Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		MEA04 - 355	X	64, 80, KQ	mark as must use	ID	2/2
pending	MEA		O/>1	(4th occurrence)			
		MEA02 - 738	O	TC - Temperature	mark as must use	ID	1/3
		MEA04 - 355	X	CE, FA	mark as must use	ID	2/2
		MEA05 - 740	X	Temperature Range Minimum (SO)		R	1/10 *
		MEA06 - 741	X	Temperature Range Maximum (SO)		R	1/10 *
pending	MEA		O/>1	(5th occurrence)			
		MEA02 - 738	O	S9 - Site Atmospheric Pressure	mark as must use	ID	1/3
		MEA03 - 739	X	Atmospheric Pressure (SO)	mark as must use	R	1/10 *
		MEA04 - 355	X	80, KQ	mark as must use	ID	2/2
pending	MEA		O/>1	(6th occurrence)			
		MEA02 - 738	O	T2 - Tube - Inside Diameter	mark as must use	ID	1/3
		MEA03 - 739	X	Tube Inside Diameter (C)	mark as must use	R	1/10 *
		MEA04 - 355	X	E8, M2	mark as must use	ID	2/2
pending	MEA		O/>1	(7th occurrence)			
		MEA02 - 738	O	SPS - Static Pressure	mark as must use	ID	1/3
		MEA04 - 355	X	KQ, 64, 80	[pending R98013] mark as must use	ID	2/2
		MEA05 - 740	X	Minimum Static Pressure Range (SO)		R	1/10 *
		MEA06 - 741	X	Maximum Static Pressure Range (SO)		R	1/10 *
pending	MEA		O/>1	(8th occurrence)			
		MEA02 - 738	O	M2 - Maximum Differential Pressure	mark as must use	ID	1/3
		MEA03 - 739	X	Maximum Differential Pressure (C)	mark as must use	R	1/10 *

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Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		MEA04 - 355	X	KQ, PS, IF	[pending R98013] mark as must use	ID	2/2
pending	MEA		O/>1	(9th occurrence)			
		MEA02 - 738	O	O1 - Orifice - Inside Diameter	mark as must use	ID	1/3
		MEA03 - 739	X	Orifice Diameter (C)	mark as must use	R	1/10 *
		MEA04 - 355	X	E8, M2	mark as must use	ID	2/2
pending	MEA		O/>1	(10th occurrence)			
		MEA02 - 738	O	TT - Time	mark as must use	ID	1/3
		MEA03 - 739	X	Chart Revolution Time (C)	mark as must use	R	1/10 *
		MEA04 - 355	X	DA, HR	mark as must use	ID	2/2
pending	MEA		O/>1	(11th occurrence)			
		MEA02 - 738	O	MEF - Meter Factor	mark as must use	ID	1/3
		MEA03 - 739	X	Machine Constant (C)	mark as must use	R	1/10 *
Sub-detail							
		QTY loop	>1				
1100	QTY		O/1				
		QTY01-673	M	MS - Measured Quantity	[new for DMR 22] mark as must use	ID	2/2
		QTY02-380	X	Measured Quantity (M)	mark as must use	R	1/15
		QTY03-355	X	Measurement Basis BZ, G8, GV	mark as must use	R	1/15
1600	MEA		O/40				
		MEA01-737	O	TR - Test Results	mark as must use	ID	2/2
		MEA02-738	O	Component (BC) H20, ZBT, ZET, ZHP, ZHX, ZMT, ZNP, ZOC, ZPT, HC, ZCD, ZH, ZHS, ZIB, ZN, ZO, ZPP, ZS, ZIP ZCM - Carbon Monoxide	[ZCM new for DMR 19] mark as must use	ID	1/3
		MEA03-739	O	Component Percentage (SO)	mark as must use	R	1/10 *
		MEA04-355	X	P1	mark as must use	ID	2/2

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Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
1600	MEA		O/40				
		MEA02-738	O	QA - Quality Index	mark as must use	ID	1/3
		MEA03-739	O	Heating Factor (BC)	mark as must use	R	1/10 *
		MEA04-355	X	JM, M9	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	SPG - Specific Gravity	mark as must use	ID	1/3
		MEA03-739	O	Specific Gravity (M)	mark as must use	R	1/10 *
		MEA04-355	X	P1	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	OBT - Observed Temperature	mark as must use	ID	1/3
		MEA03-739	O	Temperature (SO)	mark as must use	R	1/10 *
		MEA04-355	X	CE, FA	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	A6 - Average Static Pressure	mark as must use	ID	1/3
		MEA03-739	O	Static Pressure (C)	mark as must use	R	1/10 *
		MEA04-355	X	Static Pressure Indicator (M) KQ, 80, 64	[pending R98013] mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	A5 - Average Differential Pressure	mark as must use	ID	1/3
		MEA03-739	O	Differential Pressure (C)	mark as must use	R	1/10 *
		MEA04-355	X	IF, KQ, PS	[pending R98013] mark as must use	ID	2/2
1600	MEA		O/40				
		MEA01-737	O	TI - Time	mark as must use	ID	2/2
		MEA03-739	O	Flow Period (M)	mark as must use	R	1/10 *
		MEA04-355	X	DA, HR	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA01-737	O	R2 - Closing Reading	mark as must use	ID	2/2
		MEA03-739	O	Volume (M)	mark as must use	R	1/10 *
		MEA04-355	X	TZ	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	FR - Flow Rate	mark as must use	ID	1/3
		MEA03-739	O	Flow Rate (C)	mark as must use	R	1/10 *
1600	MEA		O/40				

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Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		MEA02-738	O	COF - Coefficient Factor	mark as must use	ID	1/3
		MEA03-739	O	Coefficient (C)	mark as must use	R	1/10 *
1600	MEA		O/40				
		MEA02-738	O	ITD - Integrated Differential	[new for DMR 19] mark as must use	ID	1/3
		MEA03-739	O	Integrated Differential (C)	mark as must use	R	1/10 *
1600	MEA		O/40				
		MEA02-738	O	IXD - Index Differential	mark as must use	ID	1/3
		MEA03-739	O	Index Differential (C)	mark as must use	R	1/10 *
1600	MEA		O/40				
		MEA02-738	O	RTB - Reporting Temperature Base	mark as must use	ID	1/3
		MEA03-739	O	Reporting Temperature (C)	mark as must use	R	1/10 *
		MEA04-355	X	CE, FA	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	PRF - Pressure Factor	mark as must use	ID	1/3
		MEA03-739	O	Pressure Factor (BC)	mark as must use	R	1/10 *
2100	DTM				For GISB, this segment is mandatory.		
		DTM01 - 374	M	799 - Test Data Analysis Date		ID	3/3
		DTM05 - 1250	X	D8	mark as must use	ID	2/3
		DTM06 - 1251	X	Gas Analysis Effective Date (BC)	mark as must use	AN	1/35
2100	DTM						
		DTM01 - 374	M	405 - Production		ID	3/3
		DTM05 - 1250	X	RDT, RD8	mark as must use	ID	2/3
		DTM06 - 1251	X	Beginning Flow Date (M), Ending Flow Date (M), Beginning Flow Time (M), Ending Flow Time (M)	mark as must use	AN	1/35
2100	DTM						
		DTM01 - 374	M	119 - Test Performed		ID	3/3
		DTM05 - 1250	X	RDT	mark as must use	ID	2/3
		DTM06 - 1251	X	Date/Time On (C), Date/Time Off (C)	mark as must use	AN	1/35

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Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
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		LM loop	>1				
2600	LM		O/1				
		LM01-559	M	GI - GISB	[new for DMR 17]	ID	2/2
2700	LQ		O/100	(1st occurrence)			
		LQ01-1270	O	BSP - Business Period	[new for DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Business Period (C) 1, 2	mark as must use	AN	1/30
2700	LQ		O/100	(2nd occurrence)			
		LQ01-1270	O	AJT - Adjustment Type	[on x12dmr10] mark as must use	ID	1/3
		LQ02-1271	X	Adjustment Type (C) ARN, DEE, ECF, ERA, ICA, ICT, IEC, IGQ, IGS, IPI, LNS, MCN, MEF, MNV, QRL, VEN	mark as must use	AN	1/30
2700	LQ		O/100	(3rd occurrence)			
		LQ01-1270	O	SMT - Sample Type	[new for DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Sample Type (C) A, S	mark as must use	AN	1/30
2700	LQ		O/100	(4th occurrence)			
		LQ01-1270	O	SMD - Sample Device	[new for DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Sample Device (M) B, C, I	mark as must use	AN	1/30
SE	SE		M/1				

* GISB Min/Max column will contain an * when the GISB values are different than the ANSI ASC X12 values

New items pending from DISA for other documents that also affect this document:

in DMR 10:

Add the following new code values and definitions to data element 1270 and link to Code Source 293 (Gas Industry Standards Board (GISB)):

AJT - Adjustment Type

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in DMR 16:

add LCD segment to Table 2, PTD loop position 0100, usage Optional, Max Use 2
add LQ segment to Table 2, PTD loop position 0100, usage Optional, Max Use >1

in DMR 17:

LM01 (559) for GISB:

GI - Gas Industry Standards Board (GISB)

in DMR 18:

new code values and definitions for data element 98 (used in LCD02):

MTR - Meter

New items requested from DISA in conjunction with this document:

DMR 19:

add MEA segment to Table 2, PTD loop position 0100, usage Optional, Max Use >1

new code values and definitions for data element 738 (used in MEA02):

DLC - Dial Count

SPS - Static Pressure

ZCM - Carbon Monoxide

COF - Coefficient Factor

ITD - Integrated Differential

IXD - Index Differential

DMR 20:

new code values and definitions for data element 128 (used in REF01):

CHR - Chromatograph Identifier

DMR 21:

new code values and definitions for data element 1270 (linked to Code Source 293):

MT - Meter Type

MS - Meter Status

TL - Tap Location

TA - Tap Type

BSP - Business Period

SMT - Sample Type

SMD - Sample Device

DMR 22:

new code values and definitions for data element 673 (QTY01):

MS - Measured Quantity