



GE Power Management Control System



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Technical Note #12

GE Power Management Control System

EPM3720 Sliding Window Demand Keys

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Subject: Downloading sliding demand window keys to EPM3720 meters from PMCS.

Applies To: PMCS systems with EPM3720 meters.

The EPM3720 supports up to ten sliding demand measurements that are user programmable via communications. The 3720 ACM Installation and Operation Manual describes in section 4.3.2 under the section called Sliding Window Demand describes what the parameters sliding demand synch, sliding demand period, number of demand periods, and prediction base mean and therefore what selections the user should make. The Sliding Window Demand keys determine which measurement parameter (KW phase A, KVA phase B, etc.) a sliding demand will be performed on. This application note shall describe the method to download the sliding window demand keys.

Instructions for EPM3720 Sliding Window Key Setting

1. From the EPM3720 Setup 2 tabular data screen, select the sliding window key from the attached table. To do this, click up/down sections of the appropriate thumbwheels for the key desired until the value from the attached table for the desired measurement parameter appears.
2. Press the "Download" button to set the selected EPM3720 meter sliding window key. 3. After several seconds, press the "Refresh" button to verify that the device has accepted the setup parameter. The values displayed should be those originally downloaded. The meter shall now perform a sliding demand measurement for the parameter selected by the key.

#1	#2	#3 & #4	Sliding Window Key Thumbwheel Settings	
Class	Sub-class	Instance	Measurement	Supported Modes
4	3	00	Volts LN Average	HS STD TD SD PD
4	3	01	Volts LN Phase A	HS STD TD SD PD
4	3	02	Volts LN Phase B	HS STD TD SD PD
4	3	03	Volts LN Phase C	HS STD TD SD PD

4	3	04	Volts LL Average	HS STD TD SD PD
4	3	05	Volts LL Phase AB	HS STD TD SD PD
4	3	06	Volts LL Phase BC	HS STD TD SD PD
4	3	07	Volts LL Phase CA	HS STD TD SD PD
4	3	08	Amps Average	HS STD TD SD PD
#1	#2	#3 & #4	Sliding Window Key Thumbwheel Settings	
4	3	09	Amps Phase A	HS STD TD SD PD
4	3	0A	Amps Phase B	HS STD TD SD PD
4	3	0B	Amps Phase C	HS STD TD SD PD
4	3	0C	Amps Neutral	HS STD TD SD PD
4	3	0D	Reserved	
4	3	0E	Volts Imbalance (0-100)	HS STD TD SD PD
4	3	0F	Amps Imbalance (0-100)	STD TD SD PD
4	3	10	kW Total	HS STD TD SD PD HRS
4	3	11	kW Phase A	HS STD TD SD PD
4	3	12	kW Phase B	HS STD TD SD PD
4	3	13	kW Phase C	HS STD TD SD PD
4	3	14	kVAR Total	STD TD SD PD HRS
4	3	15	kVAR Phase A	STD TD SD PD
4	3	16	kVAR Phase B	STD TD SD PD
4	3	17	kVAR Phase C	STD TD SD PD
4	3	18	kVA Total	HS STD TD SD PD HRS
4	3	19	kVA Phase A	HS STD TD SD PD
4	3	1A	kVA Phase B	HS STD TD SD PD
4	3	1B	kVA Phase C	HS STD TD SD PD
4	3	1C	PF Total	STD TD SD PD
4	3	1D	PF Phase A	STD TD SD PD
4	3	1E	PF Phase B	STD TD SD PD
4	3	1F	PF Phase C	STD TD SD PD
4	3	20	Frequency	HS STD TD SD PD
4	3	21-23	Reserved	
4	3	24	Phase Reversal (0 or 1)	HS STD
4	3	25-27	Reserved	
4	3	28	VAUX	STD TD SD PD
4	3	29-2F	Reserved	
4	3	30	I2T Avg. (0 = Off, 1= On)	HS

4	3	31	I2T Phase A (0=Off, 1=On)	HS
4	3	32	I2T Phase B (0=Off, 1=On)	HS
4	3	33	I2T Phase C (0=Off, 1=On)	HS
4	3	34-67	Reserved	
4	3	68	V1 HD - K-Factor	STD TD SD PD
4	3	69	V2 HD - K-Factor	STD TD SD PD
4	3	6A	V3 HD - K-Factor	STD TD SD PD
4	3	6B	VAUX HD - K-Factor	STD TD SD PD
4	3	6C	I1 HD - K-Factor	STD TD SD PD
4	3	6D	I2 HD - K-Factor	STD TD SD PD
4	3	6E	I3 HD - K-Factor	STD TD SD PD
4	3	6F	I4 HD - K-Factor	STD TD SD PD
4	3	70	V1 HD - Total Odd	STD TD SD PD
4	3	71	V2 HD - Total Odd	STD TD SD PD
4	3	72	V3 HD - Total Odd	STD TD SD PD
4	3	73	VAUX HD - Total Odd	STD TD SD PD
4	3	74	I1 HD - Total Odd	STD TD SD PD
4	3	75	I2 HD - Total Odd	STD TD SD PD
#1	#2	#3 & #4	Sliding Window Key Thumbwheel Settings	
4	3	76	I3 HD - Total Odd	STD TD SD PD
4	3	77	I4 HD - Total Odd	STD TD SD PD
4	3	78	V1 HD - Total Even	STD TD SD PD
4	3	79	V2 HD - Total Even	STD TD SD PD
4	3	7A	V3 HD - Total Even	STD TD SD PD
4	3	7B	VAUX HD - Total Even	STD TD SD PD
4	3	7C	I1 HD - Total Even	STD TD SD PD
4	3	7D	I2 HD - Total Even	STD TD SD PD
4	3	7E	I3 HD - Total Even	STD TD SD PD
4	3	7F	I4 HD - Total Even	STD TD SD PD
4	3	80	V1 HD - Total	STD TD SD PD
4	3	81	V2 HD - Total	STD TD SD PD
4	3	82	V3 HD - Total	STD TD SD PD
4	3	83	VAUX HD - Total	STD TD SD PD
4	3	84	I1 HD - Total	STD TD SD PD
4	3	85	I2 HD - Total	STD TD SD PD
4	3	86	I3 HD - Total	STD TD SD PD
4	3	87	I4 HD - Total	STD TD SD PD

4	3	88	V1 HD - Harmonic #1	STD TD SD PD
4	3	89	V2 HD - Harmonic #1	STD TD SD PD
4	3	8A	V3 HD - Harmonic #1	STD TD SD PD
4	3	8B	VAUX HD - Harmonic #1	STD TD SD PD
4	3	8C	I1 HD - Harmonic #1	STD TD SD PD
4	3	8D	I2 HD - Harmonic #1	STD TD SD PD
4	3	8E	I3 HD - Harmonic #1	STD TD SD PD
4	3	8F	I4 HD - Harmonic #1	STD TD SD PD
4	3	90	V1 HD - Harmonic #2	STD TD SD PD
4	3	91	V2 HD - Harmonic #2	STD TD SD PD
4	3	92	V3 HD - Harmonic #2	STD TD SD PD
4	3	93	VAUX HD - Harmonic #2	STD TD SD PD
4	3	94	I1 HD - Harmonic #2	STD TD SD PD
4	3	95	I2 HD - Harmonic #2	STD TD SD PD
4	3	96	I3 HD - Harmonic #2	STD TD SD PD
4	3	97	I4 HD - Harmonic #2	STD TD SD PD
4	3	98	V1 HD - Harmonic #3	STD TD SD PD
4	3	99	V2 HD - Harmonic #3	STD TD SD PD
4	3	9A	V3 HD - Harmonic #3	STD TD SD PD
4	3	9B	VAUX HD - Harmonic #3	STD TD SD PD
4	3	9C	I1 HD - Harmonic #3	STD TD SD PD
4	3	9D	I2 HD - Harmonic #3	STD TD SD PD
4	3	9E	I3 HD - Harmonic #3	STD TD SD PD
4	3	9F	I4 HD - Harmonic #3	STD TD SD PD
4	3	A0	V1 HD - Harmonic #4	STD TD SD PD
4	3	A1	V2 HD - Harmonic #4	STD TD SD PD
4	3	A2	V3 HD - Harmonic #4	STD TD SD PD
4	3	A3	VAUX HD - Harmonic #4	STD TD SD PD
4	3	A4	I1 HD - Harmonic #4	STD TD SD PD
4	3	A5	I2 HD - Harmonic #4	STD TD SD PD
#1	#2	#3 & #4	Sliding Window Key Thumbwheel Settings	
4	3	A6	I3 HD - Harmonic #4	STD TD SD PD
4	3	A7	I4 HD - Harmonic #4	STD TD SD PD
4	3	A8	V1 HD - Harmonic #5	STD TD SD PD
4	3	A9	V2 HD - Harmonic #5	STD TD SD PD
4	3	AA	V3 HD - Harmonic #5	STD TD SD PD

4	3	AB	VAUX HD - Harmonic #5	STD TD SD PD
4	3	AC	I1 HD - Harmonic #5	STD TD SD PD
4	3	AD	I2 HD - Harmonic #5	STD TD SD PD
4	3	AE	I3 HD - Harmonic #5	STD TD SD PD
4	3	AF	I4 HD - Harmonic #5	STD TD SD PD
4	3	B0	V1 HD - Harmonic #6	STD TD SD PD
4	3	B1	V2 HD - Harmonic #6	STD TD SD PD
4	3	B2	V3 HD - Harmonic #6	STD TD SD PD
4	3	B3	VAUX HD - Harmonic #6	STD TD SD PD
4	3	B4	I1 HD - Harmonic #6	STD TD SD PD
4	3	B5	I2 HD - Harmonic #6	STD TD SD PD
4	3	B6	I3 HD - Harmonic #6	STD TD SD PD
4	3	B7	I4 HD - Harmonic #6	STD TD SD PD
4	3	B8	V1 HD - Harmonic #7	STD TD SD PD
4	3	B9	V2 HD - Harmonic #7	STD TD SD PD
4	3	BA	V3 HD - Harmonic #7	STD TD SD PD
4	3	BB	VAUX HD - Harmonic #7	STD TD SD PD
4	3	BC	I1 HD - Harmonic #7	STD TD SD PD
4	3	BD	I2 HD - Harmonic #7	STD TD SD PD
4	3	BE	I3 HD - Harmonic #7	STD TD SD PD
4	3	BF	I4 HD - Harmonic #7	STD TD SD PD
4	3	C0	V1 HD - Harmonic #8	STD TD SD PD
4	3	C1	V2 HD - Harmonic #8	STD TD SD PD
4	3	C2	V3 HD - Harmonic #8	STD TD SD PD
4	3	C3	VAUX HD - Harmonic #8	STD TD SD PD
4	3	C4	I1 HD - Harmonic #8	STD TD SD PD
4	3	C5	I2 HD - Harmonic #8	STD TD SD PD
4	3	C6	I3 HD - Harmonic #8	STD TD SD PD
4	3	C7	I4 HD - Harmonic #8	STD TD SD PD
4	3	C8	V1 HD - Harmonic #9	STD TD SD PD
4	3	C9	V2 HD - Harmonic #9	STD TD SD PD
4	3	CA	V3 HD - Harmonic #9	STD TD SD PD
4	3	CB	VAUX HD - Harmonic #9	STD TD SD PD
4	3	CC	I1 HD - Harmonic #9	STD TD SD PD
4	3	CD	I2 HD - Harmonic #9	STD TD SD PD
4	3	CE	I3 HD - Harmonic #9	STD TD SD PD

4	3	CF	I4 HD - Harmonic #9	STD TD SD PD
4	3	D0	V1 HD - Harmonic #10	STD TD SD PD
4	3	D1	V2 HD - Harmonic #10	STD TD SD PD
4	3	D2	V3 HD - Harmonic #10	STD TD SD PD
4	3	D3	VAUX HD - Harmonic #10	STD TD SD PD
4	3	D4	I1 HD - Harmonic #10	STD TD SD PD
4	3	D5	I2 HD - Harmonic #10	STD TD SD PD
#1	#2	#3 & #4	Sliding Window Key Thumbwheel Settings	
4	3	D6	I3 HD - Harmonic #10	STD TD SD PD
4	3	D7	I4 HD - Harmonic #10	STD TD SD PD
4	3	D8	V1 HD - Harmonic #11	STD TD SD PD
4	3	D9	V2 HD - Harmonic #11	STD TD SD PD
4	3	DA	V3 HD - Harmonic #11	STD TD SD PD
4	3	DB	VAUX HD - Harmonic #11	STD TD SD PD
4	3	DC	I1 HD - Harmonic #11	STD TD SD PD
4	3	DD	I2 HD - Harmonic #11	STD TD SD PD
4	3	DE	I3 HD - Harmonic #11	STD TD SD PD
4	3	DF	I4 HD - Harmonic #11	STD TD SD PD
4	3	E0	V1 HD - Harmonic #12	STD TD SD PD
4	3	E1	V2 HD - Harmonic #12	STD TD SD PD
4	3	E2	V3 HD - Harmonic #12	STD TD SD PD
4	3	E3	VAUX HD - Harmonic #12	STD TD SD PD
4	3	E4	I1 HD - Harmonic #12	STD TD SD PD
4	3	E5	I2 HD - Harmonic #12	STD TD SD PD
4	3	E6	I3 HD - Harmonic #12	STD TD SD PD
4	3	E7	I4 HD - Harmonic #12	STD TD SD PD
4	3	E8	V1 HD - Harmonic #13	STD TD SD PD
4	3	E9	V2 HD - Harmonic #13	STD TD SD PD
4	3	EA	V3 HD - Harmonic #13	STD TD SD PD
4	3	EB	VAUX HD - Harmonic #13	STD TD SD PD
4	3	EC	I1 HD - Harmonic #13	STD TD SD PD
4	3	ED	I2 HD - Harmonic #13	STD TD SD PD
4	3	EE	I3 HD - Harmonic #13	STD TD SD PD
4	3	EF	I4 HD - Harmonic #13	STD TD SD PD
4	3	F0	V1 HD - Harmonic #14	STD TD SD PD
4	3	F1	V2 HD - Harmonic #14	STD TD SD PD

4	3	F2	V3 HD - Harmonic #14	STD TD SD PD
4	3	F3	VAUX HD - Harmonic #14	STD TD SD PD
4	3	F4	I1 HD - Harmonic #14	STD TD SD PD
4	3	F5	I2 HD - Harmonic #14	STD TD SD PD
4	3	F6	I3 HD - Harmonic #14	STD TD SD PD
4	3	F7	I4 HD - Harmonic #14	STD TD SD PD
4	3	F8	V1 HD - Harmonic #15	STD TD SD PD
4	3	F9	V2 HD - Harmonic #15	STD TD SD PD
4	3	FA	V3 HD - Harmonic #15	STD TD SD PD
4	3	FB	VAUX HD - Harmonic #15	STD TD SD PD
4	3	FC	I1 HD - Harmonic #15	STD TD SD PD
4	3	FD	I2 HD - Harmonic #15	STD TD SD PD
4	3	FE	I3 HD - Harmonic #15	STD TD SD PD

Keywords

EPM3720, sliding window key, EPM3720 setpoints, EPM3720 set-up

Related Notes

None

Last Revised 2/6/97

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