



Gäller för modeller:

CWT5015

CWT5111

CWT5002-3

CWT5018

T20 4G

Version V2.1

Uppdaterad 2018-3



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The instructions of SMS COMMANDS

You can use this sms commands to remote control and configure RTU

SMS commands is valid when RTU is in working mode

You can execute this sms commands through RS232. But the point is that when the input command is made through RS232, the “%” has to be input ahead, while if it is sent via sms, no “%” or “< CR >” is needed.

Type	Format	Note
Config commands	%command<value><enter>	Return OK or ERROR
Inquire commands	%command<?><enter>	Return the result or ERROR



Setup control server phone

CS Setup Control server phone		
<i>Write Command</i> CS<n>=[phone]	<i>Parameters:</i> <n>: CS phone index, form 0~9 [phone]: a valid phone number or null string to delete	<i>Example:</i> CS0=13800000000
<i>Read Command</i> CS?	Query all CS phone number	
<i>Delete Command</i> CS<n>		

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Basic parameters

UB Setup RTU com port0 BPS		
<i>Write Command</i> UB=<BPS>	Parameters <BPS>: 300-115200 Default BPS is 9600BPS	<i>Example:</i> UB=9600
<i>Read Command</i> UB=?		
UP Setup RTU com port0 Parity		
<i>Write Command</i> UP=<Parity>	Parameters <Parity>: 0: None (default) 1: Odd Parity 2: Even Parity 3: 0 Parity 4: 1 Parity	<i>Example:</i> UP=0
<i>Read Command</i> UP=?		
SIGNALA Enable or Disable low signal Alarm		
<i>Write Command</i> SIGNALA=<En>	Parameters <En> 0: Disable (default) 1: Enable	<i>Example:</i> SIGNALA=1
<i>Read Command</i> SIGNALA=?		
RSILOW Setup the thread hold value of Signal Low Alarm		
<i>Write Command</i> RSILOW=<Signal>	Parameters <Signal> Normal Signal range is 10-30 0 or 99 means no signal at all	<i>Example:</i> RSILOW=11
<i>Read Command</i> RSILOW=?	When signal low, RTU will make a sound alarm and try to send SMS	



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DAS Enable or Disable Daily Report SMS at 10.pm everyday		
Write Command DAS=<En>	Parameters <En> 0: Disable 1: Enable (default)	Example: DAS=1
Read Command DAS =?		

PRTCS Send proof time request SMS to first valid CS number when power up		
Write Command PRTCS=<En>	Parameters <En>: 0: Disable 1: Enable (default)	Example: PRTCS=1
Read Command PRTCS=?		

PRTSP Send proof time request SMS to SP when power up		
Write Command PRTSP=<En>	Parameters <En>: 0: Disable (default) 1: Enable	Example: PRTSP=1
Read Command PRTSP=?		

SP Setup the SP phone number		
Write Command SP=<phone>	SP phone number is a phone that can automatic reply a SMS to any incoming SMS, RTU use it to update interior Clocker by the timestamp in SMS, the SMS contents is not important	
Read Command SP=?	SP phone number can be RTU's simcard number. So it will send proof time sms to itself when power up and RTU will receive this sms. So RTU can take out the time stamp from the sms PDU. Note: if the RTU's simcard is changed, you must change the SP also.	

RPLSUC Reply SMS for successfully executed SMS command		
Write Command RPLSUC=<En>	Parameters <En>: 0: Disable 1: Enable (default)	Example: RPLSUC=1
Read Command RPLSUC=?		

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RPLERR Reply SMS for incorrect executed SMS command		
<i>Write Command</i> RPLERR=<En>	Parameters <En>: 0: Disable 1: Enable (default)	<i>Example:</i> RPLERR=1
<i>Read Command</i> RPLERR=?		

PW Setup RTU login Password		
<i>Write Command</i> PW=<psd>	Password is 6 characters string	<i>Example:</i> PW=888888
<i>Read Command</i> PW=?	Default password is 000000	

ID Setup RTU Device ID		
<i>Write Command</i> ID=<id>	Device ID is a 8 characters string Default ID is null	<i>Example:</i> ID=00000001
<i>Read Command</i> ID=?	ID is used in GPRS CWT_IO protocol	

PIN Setup RTU PIN code		
<i>Write Command</i> PIN=<code>	PIN code is 4 number	<i>Example:</i> PIN=1234
<i>Read Command</i> PIN=?		

PUK Setup RTU PUK code		
<i>Write Command</i> PUK=<code>	PUK code including 8 numbers	<i>Example:</i> PUK=12345678
<i>Read Command</i> PUK=?		



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SMSC Setup the SMS message center service number		
<i>Write Command</i> SMSC=<code>		
<i>Read Command</i> SMSC=?	Default is NULL (can works well in most of area and country)	

DESC Setup the RTU description information		
<i>Write Command</i> DESC=<string>		<i>Example:</i> DESC=room1
<i>Read Command</i> DESC=?	Description is basic information about the device, etc, the address, the administrator and so on.	

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Alarm parameters

ARING Enable or Disable Alarm RING call function		
<i>Write Command</i> ARING=<En>	<i>Parameters</i> <En>: 0: Disable (default) 1: Enable	<i>Example:</i> ARING=1
<i>Read Command</i> ARING=?	If enable RING call, any alert will cause a voice call to CS phone numbers.	
ASC Enable or Disable Auto Answer Voice call from CS phones		
<i>Write Command</i> ASC=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> ASC=1
<i>Read Command</i> ASC=?		
AWB Enable or Disable description in Alarm SMS		
<i>Write Command</i> AWB=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> AWB=1
<i>Read Command</i> AWB=?	Add the description and timestamp with alert sms	
UARTEVENT Enable or Disable Export events from UART		
<i>Write Command</i> UARTEVENT=<En>	<i>Parameters</i> <En>: 0: Disable (default) 1: Enable	<i>Example:</i> UARTEVENT=1
<i>Read Command</i> UARTEVENT=?		



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IOAT Setup alert sms resend times		
<i>Write</i> Command IOAT=<n>	<i>Parameters</i> <n>: sms resend times default is 1	<i>Example:</i> IOAT=3
<i>Read</i> Command IOAT=?		

DRPTID Enable or Disable ID information in daily report SMS		
<i>Write</i> Command DRPTID=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> DRPTID=1
<i>Read</i> Command DRPTID=?		

DRPDEF Enable or Disable ARM/DISARM information in daily report SMS		
<i>Write</i> Command DRPDEF=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> DRPDEF=1
<i>Read</i> Command DRPDEF=?		

DRPBAT Enable or Disable Power Supply information in daily report SMS		
<i>Write</i> Command DRPBAT=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> DRPBAT=1
<i>Read</i> Command DRPBAT=?		



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DRPMEM Enable or Disable description information in daily report SMS		
<i>Write</i> Command DRPMEM=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> DRPMEM=1
<i>Read</i> Command DRPMEM=?		

DRPRSI Enable or Disable GSM Signal information in daily report SMS		
<i>Write</i> Command DRPRSI=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> DRPRSI=1
<i>Read</i> Command DRPRSI=?		

DRPDIN Enable or Disable Alarm Wired Inputs information in daily report SMS		
<i>Write</i> Command DRPDIN=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> DRPDIN=1
<i>Read</i> Command DRPDIN=?		

DRPTMP Enable or Disable build in temperature information in daily report SMS		
<i>Write</i> Command DRPTMP=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> DRPTMP=1
<i>Read</i> Command DRPTMP=?		

Input and output parameters

IOTP Setup all inputs and outputs type		
<i>Setup all I/O channels type</i> <i>Write</i> <i>Command</i> IOTP=<I₀I₁I₂I₃I₄I₅I₆I₇><O₀O₁O₂O₃O₄O₅O₆O₇>	<i>Parameters</i> <I₀I₁I₂I₃I₄I₅I₆I₇> Inputs type: 0: DISABLE 1: TO OPEN ALARM (EDGE) 2: TO OPEN ALARM(LEVEL) 3: TO CLOSE ALARM (EDGE)(default) 4: TO CLOSE ALARM(LEVEL) <O₀O₁O₂O₃O₄O₅O₆O₇> Outputs type: 0: DISABLE 1: GENERAL OUTPUT (default) 2: BUZZER 3: SNAPSHOT 4: SIREN <n>: 0~7 (DI or DO index)	<i>Example:</i> IOTP=3333333311110000
<i>Setup single input type</i> <i>Write</i> <i>Command</i> IOTPI=<n>,<I_n>		<i>Example:</i> IOTPI=0,2 Setup input0 type is 2
<i>Setup single output type</i> <i>Write</i> <i>Command</i> IOTPO=<n>,<O_n>		<i>Example:</i> IOTPO=0,1 Setup output0 type is 1
<i>Read</i> <i>Command</i> IOTP=?		

IOIP Disable inputs alarm		
<i>Write</i> <i>Command</i> IOIP=<n/nn/.../nnnnnnnn>	<i>Parameters</i> <n/nn/.../nnnnnnnn> : 1 digit to 8 digits n: 0~7 (input index)	<i>Example:</i> Disable input0 alarm IOIP=0
<i>Read</i> <i>Command</i> IOIP=?		Disable input2/3/5 alarm IOIP=235

IOIC Enable inputs alarm		
<i>Write</i> <i>Command</i> IOIC=<n/nn/.../nnnnnnnn>	<i>Parameters</i> <n/nn/.../nnnnnnnn> : 1 digit to 8 digits n: 0~7 (input index)	<i>Example:</i> IOIC=1 IOIC=01234567
<i>Read</i> <i>Command</i> IOIC=?		

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DINURG Enable or Disable inputs "24 hours" option		
<i>Write Command</i> DINURG<n>,<En>	<i>Parameters</i> <n>: 0~7 (input index) <En>: 0: Disable (default) 1: Enable	<i>Example:</i> DINURG0,1 Enable input0 "24 hours" option
<i>Read Command</i> DINURG=?		

DINSND Enable or Disable inputs "sound alarm" option		
<i>Write Command</i> DINSND<n>,<En>	<i>Parameters</i> <n>: 0~7 (input index) <En>: 0: Disable 1: Enable (default)	<i>Example:</i> DINSND=1,0 Disable input1 "sound alarm" option
<i>Read Command</i> DINSND=?		

IOAS Setup alarm sms limit interval		
<i>Write Command</i> IOAS<n>,<time>	<i>Parameters</i> <n>: 0~7 (Inputs index) <time>: 0~255 (min)	<i>Example:</i> IOAS0,2
<i>Read Command</i> IOAS<n>?	Default is 0	

IOLS Setup sms resend interval when input is in alarm state		
<i>Write Command</i> IOLS<n>,<time>	<i>Parameters</i> <n>: 0~7 (Inputs index) <time>: 0~255 (min)	<i>Example:</i> IOLS0,2
<i>Read Command</i> IOLS<n>?	Default is 0	



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DINDLY Setup timer for ensuring inputs alarm		
<i>Write</i> Command DINDLY<n>,<time>	<i>Parameters</i> <n>: 0~7 (Inputs index) <time>: 0~65535 (sec)	<i>Example:</i> DINDLY0,5
<i>Read</i> Command DINDLY<n>?	Default is 0	

S Setup digital inputs alarm sms content		
<i>Write</i> Command S<nn>=<string>	<i>Parameters</i> <nn>: 00~07 (inputs alarm sms index) <string>: Alarm sms	<i>Example:</i> S00=sensor alarm
<i>Read</i> Command S<nn>=?		

S Setup digital inputs recover sms content		
<i>Write</i> Command S<nn>=<string>	<i>Parameters</i> <nn>: 08~15 (inputs recover sms index) <string>: Recover sms	<i>Example:</i> S08=alarm recover
<i>Read</i> Command S<nn>=?		

I Setup inputs name		
<i>Write</i> Command I<nn>=<string>	<i>Parameters</i> <nn>: 00~07 (inputs name index) <string>: Name	<i>Example:</i> I02=sensor
<i>Read</i> Command I<nn>=?		



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O Setup outputs name		
<i>Write</i> <i>Command</i> O<nn>=<string>	<i>Parameters</i> <nn>: 00~07 (outputs name index) <string>: Name	<i>Example:</i> O02=pump
<i>Read</i> <i>Command</i> O<nn>=?		

IOIS Read inputs status	
<i>Read</i> <i>Command</i> IOIS	

IOOS Read outputs status	
<i>Read</i> <i>Command</i> IOOS	

IOOR Setup remember outputs status		
<i>Write</i> <i>Command</i> IOOR=<En>	<i>Parameters</i> <En>: 0: Disable (default) 1: Enable	<i>Example:</i> IOOR=1
<i>Read</i> <i>Command</i> IOOR=?		

IOHT Setup Persist timespan of siren		
<i>Write</i> <i>Command</i> IOHT=<n>	<i>Parameters</i> <n>: 0~255 (min)	<i>Example:</i> IOHT=10
<i>Read</i> <i>Command</i> IOHT=?	Default is 15 minutes	



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Control outputs commands

IOOH Control outputs on		
<i>control</i> <i>Command</i>	<i>Parameters</i> <nnnnnnnn>: 1 digit to 8 digits n: 0~7 (outputs index)	<i>Example:</i> Control output0 on: IOOH0 Control output2/3/5 on: IOOH235
IOOH<nnnnnnnn>		

IOOL Control outputs off		
<i>control</i> <i>Command</i>	<i>Parameters</i> <nnnnnnnn>: 1 digit to 8 digits n: 0~7 (outputs index)	<i>Example:</i> IOOL0 IOOL01234567
IOOL<nnnnnnnn>		

IOOP Control outputs pulse		
<i>control</i> <i>Command</i>	<i>Parameters</i> <nnnnnnnn>: 1 digit to 8 digits n: 0~7 (outputs index) default pulse interval is 1 second, and the interval can be set by command IOPO	<i>Example:</i> IOOP0 IOOP01234567
IOOP<nnnnnnnn>		

IOPO Setup pulse interval		
<i>Write</i> <i>Command</i>	<i>Parameters</i> <sec>: 0~65535 (second)	<i>Example:</i> IOPO5
IOPO<sec>		
<i>Read</i> <i>Command</i>		
IOPO?		

IOOP Control outputs pulse with time		
<i>control</i> <i>Command</i>	<i>Parameters</i> <nnnnnnnn>: 1 digit to 8 digits n: 0~7 (output index) <sec>: 0~65535 (second)	<i>Example:</i> Generate a 10 seconds pulse on output0: IOOP0,10 Generate a 3 seconds pulse on output 2/3/5: IOOP235,3
IOOP<nnnnnnnn>,<sec>		



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IOOF Control all outputs by a command		
<i>control</i> <i>Command</i> IOOF < S₀S₁S₂S₃S₄S₅S₆S₇ >	<i>Parameters</i> < S₀S₁S₂S₃S₄S₅S₆S₇ >: 8 digits S_n : 0: output off 1: output on	<i>Example:</i> Control output4/5 off and others on IOOF11110011

AIN parameters

AIN*H Setup high point of the AIN normal range1

<i>Write Command</i> AIN<n>H=<Val>	<i>Parameters</i> <n>: 0~3 (AIN index) <Val>: a float value	<i>Example:</i> AIN0H=30.01
<i>Read Command</i> AIN<n>H=?		

AIN*L Setup low point of the AIN normal range1

<i>Write Command</i> AIN<n>L=<Val>	<i>Parameters</i> <n>: 0~3 (AIN index) <Val>: a float value	<i>Example:</i> AIN0L=10.53
<i>Read Command</i> AIN<n>L=?		

AIN*SC Setup the scale factor of AIN

<i>Write Command</i> AIN<n>SC=<Val>	<i>Parameters</i> <n>: 0~3 (AIN index) <Val>: a float value	<i>Example:</i> AIN0SC=62.00
<i>Read Command</i> AIN<n>SC=?	<i>Reference</i> AIN value = AIN*[Scale Factor]-Offset	

AIN*ZE Setup the Offset value of AIN

<i>Write Command</i> AIN<n>ZE=<Val>	<i>Parameters</i> <n>: 0~3 (AIN index) <Val>: a float value	<i>Example:</i> AIN0ZE=12.00
<i>Read Command</i> AIN<n>ZE=?	<i>Reference</i> AIN value = AIN*[Scale Factor]-Offset	



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AIN*OS Setup AIN normal range 1's lag value		
<i>Write</i> Command AIN<n>OS=<lag>	<i>Parameters</i> <n>: 0~3 (AIN index) <lag>: a float value Default is 0	<i>Example:</i> AIN0OS=2.00
<i>Read</i> Command AIN<n>OS=?		
<i>Reference</i>	When AIN value goes out of normal rang1, RTU will alarm. But will not return to normal state before AIN return into range AINH-lag and AINL+lag	

AIN*ST Setup AIN upload step value		
<i>Write</i> Command AIN<n>ST=<val>	<i>Parameters</i> <n>: 0~3 (AIN index) <lag>: a float value Default is 0	<i>Example:</i> AIN0ST=5.00
<i>Read</i> Command AIN<n>ST=?		

AIN*R Query AIN Normal range 1		
<i>Execution</i> Command AIN<n>R	<i>Parameters</i> <n>: 0~3 (AIN index)	

AIN*C Query Value of AIN		
<i>Execution</i> Command AIN<n>C	<i>Parameters</i> <n>: 0~3 (AIN index)	

ADS Query all AIN		
<i>Execution</i> Command ADS		



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AINON Enable AIN		
<i>Write</i> Command AINON=<n>	<i>Parameters</i> <n>: 0~3 (AIN index)	<i>Example:</i> Enable AIN0 AINON=0
<i>Read</i> Command AINON=?		

AINOFF Disable AIN		
<i>Write</i> Command AINOFF=<n>	<i>Parameters</i> <n>: 0~3 (AIN index)	<i>Example:</i> Disable AIN1 AINOFF=1
<i>Read</i> Command AINOFF=?		

AINURG Setup AIN Urgency		
<i>Write</i> Command AINURG=<n>,<En>	<i>Parameters</i> <n>: 0~3 (AIN index) <En>: 0: Disable (default) 1: Enable	<i>Example:</i> Enable AIN0 as urgent alarm AINURG=0,1
<i>Read</i> Command AINURG=?		

AINSND Setup AIN Sound Alarm		
<i>Write</i> Command AINSND=<n>,<En>	<i>Parameters</i> <n>: 0~3 (AIN index) <En>: 0: Disable 1: Enable (default)	<i>Example:</i> Enable AIN0 sound alarm AINSND=0,1
<i>Read</i> Command AINSND=?		



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AINTP Setup AIN type		
<i>Write</i> Command AINTP=<n>,<type>	<i>Parameters</i> <n>: 0~3 (AIN index) <type>: 0: Voltage 1: Current (default)	<i>Example:</i> AINTP=0,1
<i>Read</i> Command AINTP=?		

AINDRP Setup AIN value send with daily report sms		
<i>Write</i> Command AINDRP=<S₀S₁S₂S₃>	<i>Parameters</i> <S ₀ S ₁ S ₂ S ₃ >: 4 AIN channels S _n : 0: Disable (default) 1: Enable	<i>Example:</i> Enable AIN 0/1 daily report AINDRP=1100
<i>Read</i> Command AINDRP=?		

AINAS Setup the minimum time of twice AD alarm sms		
<i>Write</i> Command AINAS=<min>	<i>Parameters</i> <min>: 0~255 (min), default is 0 0 means disable the function	<i>Example:</i> AINAS=2
<i>Read</i> Command AINAS=?		

AINLS Setup interval of resend AD alarm state sms		
<i>Write</i> Command AINLS=<min>	<i>Parameters</i> <min>: 0~255 (min), default is 0 0 means disable the function	<i>Example:</i> AINLS=2
<i>Read</i> Command AINLS=?		



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AINDLY Setup timespan of ensure AD alarm		
<i>Write Command</i> AINDLY=<sec>	<i>Parameters</i> <sec>: 0~255 (second), default is 0 0 means disable the function	<i>Example:</i> AINDLY=2
<i>Read Command</i> AINDLY=?		
A Setup the AIN channel's name		
<i>Write Command</i> A<nn>=<string>	<i>Parameters</i> <nn>: 00~03 (AIN index) <string>: Max 24 characters.	<i>Example:</i> A00=temperature
<i>Read Command</i> A<nn>=?		

Modbus master parameters

N Setup the registers' name		
<i>Write</i> <i>Command</i> N<nn><string>	<i>Parameters</i> <nn>: 00~31 (register index) <string>: register name, max 32 characters	<i>Example:</i> N00temperature
<i>Read</i> <i>Command</i> N<nn>?		<i>Example:</i> N00?
R Query register value		
<i>Read</i> <i>Command</i> R<nn>?	<i>Parameters</i> <nn>: 00~31 (register index)	<i>Example:</i> R01?
MDLS Setup the interval minutes of alarm status registers' SMS		
<i>Write</i> <i>Command</i> MDLS<min>	<i>Parameters</i> <min>: 0~255 minutes	<i>Example:</i> MDLS2
<i>Read</i> <i>Command</i> MDLS?	<i>Reference:</i> 0 means never resend SMS when register keep in alarm state 1-255 minutes means if the counter of Alarm State exceed this interval An alarm SMS will resend.	
MDAS Setup the interval minutes between twice Alarm SMS		
<i>Write</i> <i>Command</i> MDAS<min>	<i>Parameters</i> <min>: 0~65535 minutes	<i>Example:</i> MDAS2
<i>Read</i> <i>Command</i> MDAS?	<i>Reference:</i> 0 means disable this function This command is used to forbidden too many SMS send in s short time	



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MDRTO Setup response timeouts of modbus master reading		
<i>Write</i> Command MDRTO<ms>	<i>Parameters</i> <ms>: 0~65535 ms the millisecond of timeouts for Modbus reading response	<i>Example:</i> MDRTO100
<i>Read</i> Command MDRTO?		

MDLTO The delay time interval of every reading pool		
<i>Execution</i> Command MDLTO<ms>	<i>Parameters</i> <ms>: 0~65535 ms the millisecond of timeouts for Modbus reading response	<i>Example:</i> MDLTO10
<i>Read</i> Command MDLTO?		

MDSTATE Query all registers' value	
<i>Execution</i> Command MDSTATE	

MDALARM Query the registers that in alarm status	
<i>Execution</i> Command MDALARM	

MDMAS Setup the master polling parameters		
<i>Write</i> Command MDMAS<nn><device address>,<register address>,<type>,<ns>,<gain>,<step>,<offset>,<mask>,<do>	<i>Parameters</i> <nn>: 00~31(polling group index) <device address>: destination device address <register address>: destination register address <type>: register type 0: Coil	<i>Example:</i> MDMAS0132,1001,0,1,2,1,3,1,2



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	<p>1: Keep register 2: Input register 3: Discrete Input state</p> <p><ns>: normal state of Coils and Discrete Input state registers, 0 is Normal off, 1 is Normal ON</p> <p><gain>: the sample value equal read value*GAIN-offset</p> <p><step>: the value the limit the gprs upload, if the absolute change value of between twice pool beyond this value, master will upload New Value by GPRS or other way</p> <p><offset>: the sample value equal read value*GAIN-offset</p> <p><mask>: set to 0, disable this function, it's a bit alarm mask that can cause ALARM status.</p> <p><do>: interlock output pin index. Set to 255 to disable this function</p>	
--	--	--

MDMSF Setup the register 32bit flag and little ending flag		
<p><i>Write</i></p> <p><i>Command</i></p> <p>MDMSF<nn><32b>,<lit-end>,<float>,<unsigned></p>	<p><i>Parameters</i></p> <p><nn>: 00~31 (register index)</p> <p><32b>:</p> <p>1: this register is 32bits 0: this register is 16bits</p> <p><lit-end>:</p> <p>1: this register is little ending 0: this register is big ending</p> <p><float>:</p> <p>1: this register is float type 0: this register is integer type</p> <p><unsigned>:</p> <p>1: this register is unsigned integer 0: this register is signed integer</p>	<p><i>Example:</i></p> <p>MDMSF021,1,1,0</p>

MDSLX Query the connected slave device counts	
<p><i>Execution</i></p> <p><i>Command</i></p>	



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MDSLV	
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WCOIL Write a Coil register		
<i>Write Command</i>	<i>Parameters</i>	<i>Example:</i>
WCOIL<dev id>,<register address>,<value>	<dev id>: the destination device to Write <register address>: register address <value>: 1: set the coil ON 0: set the coil OFF	WCOIL1,1,1

WREGI Write a keep register		
<i>Write Command</i>	<i>Parameters</i>	<i>Example:</i>
WREGI<dev id>,<register address>,<value>	<dev id>: the destination device to Write <register address>: register address <value>:	WREGI 1,1,50

WMREGI Write multi keep register		
<i>Write Command</i>	<i>Parameters</i>	<i>Example:</i>
WMREGI<dev id>,<register address>,<value1>,<value2>,<value3>.....	<dev id>: the destination device to Write <register address>: the start address of register to write <value1>,<value2>,<value3>.....: consecutive multiple registers value	Write keep register from 1 to 3 on device address 9 WMREGI9,1,50,34,4

RCOIL Read Coil register		
<i>Write Command</i>	<i>Parameters</i>	<i>Example:</i>
RCOIL<dev id>,<start address>,<counts>	<dev id>: the destination device to read <register address>: the start address of register to read <counts>: the counts of registers to read	Read coil registers 1-11 on device 2 RCOIL2,1,10

RKEEP Read Keep register		
<i>Write Command</i>	<i>Parameters</i>	<i>Example:</i>
RKEEP<dev id>,<start address>,<counts>	<dev id>: the destination device to read <register address>: the start address of register to read <counts>: the counts of registers to read	Read keep registers 1-5 on device 5 RKEEP5,1,5

RINPUT Read Input register		
<i>Write</i>	<i>Parameters</i>	<i>Example:</i>



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<i>Command</i> RINPUT<dev id>,<start address>,<counts>	<dev id>: the destination device to read <register address>: the start address of register to read <counts>: the counts of registers to read	Read input registers 1-4 on device 6 RINPUT6,1,4
--	---	---

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GPRS parameters

M2MEN Eable or disable GPRS transfer		
<i>Write Command</i> M2MEN=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> M2MEN=0
<i>Read Command</i> M2MEN=?		
M2MAPN Setup GPRS APN		
<i>Write Command</i> M2MAPN=<string>	<i>Parameters</i> <string>: GPRS access point name	<i>Example:</i> M2MAPN=cmnet
<i>Read Command</i> M2MAPN=?		
M2MUID Setup GPRS user name		
<i>Write Command</i> M2MUID=<string>	<i>Parameters</i> <string>: GPRS user name, default is null	<i>Example:</i> M2MUID=user
<i>Read Command</i> M2MUID=?		
M2MPWD Setup GPRS user password		
<i>Write Command</i> M2MPWD=<string>	<i>Parameters</i> <string>: GPRS user password, default is null	<i>Example:</i> M2MPWD=pwd
<i>Read Command</i> M2MPWD=?		



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M2MIDT Setup GPRS idle timeout		
<i>Write</i> Command M2MIDT=<min>	<i>Parameters</i> <min>: 0~65535 (minute) Default is 0	<i>Example:</i> M2MIDT=20
<i>Read</i> Command M2MIDT=?		

M2MCTO Setup TCP connection timeouts		
<i>Write</i> Command M2MCTO=<sec>	<i>Parameters</i> <sec>: 0~65535 (second) Default is 25	<i>Example:</i> M2MCTO=25
<i>Read</i> Command M2MCTO=?		

MODUID Setup modbus TCP unit id		
<i>Write</i> Command MODUID=<id>	<i>Parameters</i> <id>:	<i>Example:</i> MODUID=2
<i>Read</i> Command MODUID=?		

GDTUEN Eable or disable com data to GPRS server(DTU)		
<i>Write</i> Command GDTUEN=<En>	<i>Parameters</i> <En>: 0: Disable (default) 1: Enable	<i>Example:</i> GDTUEN=0
<i>Read</i> Command GDTUEN=?		



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GMSGEN Enable or disable CWT_IO protocol		
<i>Write</i> Command GMSGEN=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable	<i>Example:</i> GMSGEN=0
<i>Read</i> Command GMSGEN=?		

M2MDTSIP Setup GPRS server IP or domain name		
<i>Write</i> Command M2MDTSIP<n>=<ip>	<i>Parameters</i> <n>: 0~3 (server index) <ip>: server IP address or domain name	<i>Example:</i> M2MDTSIP0=173.276 .78.90
<i>Read</i> Command M2MDTSIP=?		

M2MDTSPT Setup GPRS server port		
<i>Write</i> Command M2MDTSPT<n>=<port>	<i>Parameters</i> <n>: 0~3 (server index) <port>: server port	<i>Example:</i> M2MDTSPT0=3000
<i>Read</i> Command M2MDTSPT=?		

M2MDTSPO Setup transfer protocol		
<i>Write</i> Command M2MDTSPO<n>=<pt>	<i>Parameters</i> <n>: 0~3 (server index) <pt>: Protocol type index 0: TCP 1: UDP	<i>Example:</i> M2MDTSPO=0
<i>Read</i> Command M2MDTSPO=?		



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M2MDTSTP Setup server type		
<i>Write</i> <i>Command</i> M2MDTSTP<n>=<st>	<i>Parameters</i> <n>: 0~3 (server index) <st>: service type index 0: CWT_IO 1: GPRS DTU 2: Modbus TCP 3: WMMP (unused)	<i>Example:</i> M2MDTSTP2=0
<i>Read</i> <i>Command</i> M2MDTSTP=?		

M2MDTSTO Setup data transfer timeouts		
<i>Write</i> <i>Command</i> M2MDTSTO<n>=<Socket IdleTo>, <Server RepTo>, <HeartTo>	<i>Parameters</i> <n>: 0~3 (server index) <Socket IdleTo>: idle timeout (second) <Server RepTo>: Respond timeout (ms) <HeartTo>: Heart timeout (second)	<i>Example:</i> M2MDTSTO=0
<i>Read</i> <i>Command</i> M2MDTSTO=?		



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GPRS commands

M2MDRP Request upload state to server	
<i>Execution Command</i>	Data include DI, DO, AI, modbus etc.
M2MDRP	
M2MDIS Request upload all DI state to server	
<i>Execution Command</i>	
M2MDIS	
M2MDOS Request upload all DO state to server	
<i>Execution Command</i>	
M2MDOS	
M2MADS Request upload all AI data to server	
<i>Execution Command</i>	
M2MADS	
M2MREGS Request upload all local modbus registers to server	
<i>Execution Command</i>	
M2MREGS	
M2MITP Request upload build in temperature to server	
<i>Execution Command</i>	
M2MITP	
M2METP Request upload external DS18B20 temperature to server	
<i>Execution Command</i>	
M2METP	



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M2MRTM Re-dial GPRS to connect server	
<i>Execution Command</i>	
M2MRTM	

M2MLIP Query local GPRS interface and IP address	
<i>Execution Command</i>	
M2MLIP	

Buzzer parameters

BUZEN Enable or disable buzzer sound alarm		
<i>Write</i> <i>Command</i> BUZEN=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable (default)	<i>Example:</i> BUZEN=1
<i>Read</i> <i>Command</i> BUZEN=?	The sound alarm include interior buzzer and any output used as Siren or Buzzer	
BUZT Setup buzzer persist time when alarm		
<i>Write</i> <i>Command</i> BUZT=<sec>	<i>Parameters</i> <sec>: 0~255 seconds Default Time span is 60 seconds	<i>Example:</i> BUZT=15
<i>Read</i> <i>Command</i> BUZT=?		
BUZCLR Reset the interior buzzer sound		
<i>Execution</i> <i>Command</i> BUZCLR		

Interior temperature parameters

TMPH Setup high point of interior temperature normal range		
Write Command	Parameters <Val>: -127~128	Example: TMPH=30
TMPH=<Val>		
Read Command		
TMPH=?		
TMPL Setup low point of interior temperature normal range		
Write Command	Parameters <Val>: -127~128	Example: TMPL=10
TMPL=<Val>		
Read Command		
TMPL=?		
TMPB Setup temperature adjustments value		
Write Command	Parameters <Val>: -127~128	Example: TMPB=2
TMPB=<Val>		
Read Command		
TMPB=?		
TMPAS Setup the timespan of twice alarm sms		
Write Command	Parameters <min>: 0~255 (min), default is 0 0 means disable the function	Example: TMPAS=2
TMPAS=<min>		
Read Command		
TMPAS=?		



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TMPLS Setup timespan of resend alarm sms		
<i>Write</i> Command TMPLS=<min>	<i>Parameters</i> <min>: 0~255 (min), default is 0 0 means disable the function	<i>Example:</i> TMPLS=2
<i>Read</i> Command TMPLS=?		

TMPNDLY Setup timespan of ensure alarm status		
<i>Write</i> Command TMPNDLY=<sec>	<i>Parameters</i> <sec>: 0~255 (second), default is 0 0 means disable the function	<i>Example:</i> TMPNDLY=2
<i>Read</i> Command TMPNDLY=?		

TMPOS Setup lags of temperature alarm range		
<i>Write</i> Command TMPOS=<val>	<i>Parameters</i> <val>: 0~255	<i>Example:</i> TMPOS=2
<i>Read</i> Command TMPOS=?		

TMPON Enable temperature sensor alarm		
<i>Execution</i> Command TMPON		

TMPOFF Disable temperature sensor alarm		
<i>Execution</i> Command TMPOFF		



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TMPURG Setup temperature sensor alarm is urgency 24 hours		
<i>Write Command</i> TMPURG=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable	<i>Example:</i> TMPURG=1
<i>Read Command</i> TMPURG=?		
TMPSND Setup temperature sensor sound alarm		
<i>Write Command</i> TMPSND=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable	<i>Example:</i> TMPSND=1
<i>Read Command</i> TMPSND=?		
TMPIH Setup interlock output pin of high point		
<i>Write Command</i> TMPIH=<DO>	<i>Parameters</i> <DO>: 0~n (output index) 255 is none	<i>Example:</i> TMPIH=0
<i>Read Command</i> TMPIH=?		
TMPIL Setup interlock output pin of low point		
<i>Write Command</i> TMPIL=<DO>	<i>Parameters</i> <DO>: 0~n (output index) 255 is none	<i>Example:</i> TMPIL=1
<i>Read Command</i> TMPIL=?		
TMPR Query temperature normal range		
<i>Execution Command</i> TMPR		



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TMPC Query current temperature value	
<i>Execution</i>	
<i>Command</i>	
TMPC	



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Interior battery parameters

BATEN Enable or disable power lost alarm		
<i>Write</i> <i>Command</i> BATEN=<En>	<i>Parameters</i> <En>: 0: Disable 1: Enable	<i>Example:</i> BATEN=1
<i>Read</i> <i>Command</i> BATEN=?		
POWDLY Setup time of ensure power alarm		
<i>Write</i> <i>Command</i> POWDLY=<sec>	<i>Parameters</i> <sec>: 0~65535 seconds Default is 5, 0 means disable the function	<i>Example:</i> POWDLY=15
<i>Read</i> <i>Command</i> POWDLY=?		
POW Query power status		
<i>Execution</i> <i>Command</i> POW		

Interlock parameters

IOOC Setup outputs action	
<p><i>Write</i> <i>Command</i></p> <p>IOOC=<nnnnnnnn><xxxxxxxx></p>	<p><i>Parameters</i></p> <p><nnnnnnnn>: 0~7 Outputs' action when alert by "link with" <xxxxxxxx>: 0~7 Outputs' action when recover by "link with"</p> <p>n & x:</p> <ul style="list-style-type: none"> 0: OPEN 1: CLOSE 2: CLOSE PULSE 3: CLOSE 300S 4: CLOSE 30S 5: CLOSE 60S 6: NONE
<p><i>Read</i> <i>Command</i></p> <p>IOOC=?</p>	

IOOA Setup link with																									
<p><i>Write</i> <i>Command</i></p> <p>IOOA=<n><index></p>	<p><i>Parameters</i></p> <p><n>: 0~7 output index <index>: "link with" index</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 2px;">0: NONE</td> <td style="width: 33%; padding: 2px;">8: 7 input alert</td> <td style="width: 33%; padding: 2px;">16: humidity sensor</td> </tr> <tr> <td style="padding: 2px;">1: 0 input alert</td> <td style="padding: 2px;">9: 0 AD alert</td> <td style="padding: 2px;">17: 0 Ex-temp alert</td> </tr> <tr> <td style="padding: 2px;">2: 1 input alert</td> <td style="padding: 2px;">10: 1 AD alert</td> <td style="padding: 2px;">18: 1 Ex-temp alert</td> </tr> <tr> <td style="padding: 2px;">3: 2 input alert</td> <td style="padding: 2px;">11: 2 AD alert</td> <td style="padding: 2px;">19: 2 Ex-temp alert</td> </tr> <tr> <td style="padding: 2px;">4: 3 input alert</td> <td style="padding: 2px;">12: 3 AD alert</td> <td style="padding: 2px;">20: 3 Ex-temp alert</td> </tr> <tr> <td style="padding: 2px;">5: 4 input alert</td> <td style="padding: 2px;">13: Interior temp alert</td> <td style="padding: 2px;">21: 4 Ex-temp alert</td> </tr> <tr> <td style="padding: 2px;">6: 5 input alert</td> <td style="padding: 2px;">14: system power down</td> <td style="padding: 2px;">22: 5 Ex-temp alert</td> </tr> <tr> <td style="padding: 2px;">7: 6 input alert</td> <td style="padding: 2px;">15: Server call</td> <td></td> </tr> </table>	0: NONE	8: 7 input alert	16: humidity sensor	1: 0 input alert	9: 0 AD alert	17: 0 Ex-temp alert	2: 1 input alert	10: 1 AD alert	18: 1 Ex-temp alert	3: 2 input alert	11: 2 AD alert	19: 2 Ex-temp alert	4: 3 input alert	12: 3 AD alert	20: 3 Ex-temp alert	5: 4 input alert	13: Interior temp alert	21: 4 Ex-temp alert	6: 5 input alert	14: system power down	22: 5 Ex-temp alert	7: 6 input alert	15: Server call	
0: NONE	8: 7 input alert	16: humidity sensor																							
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3: 2 input alert	11: 2 AD alert	19: 2 Ex-temp alert																							
4: 3 input alert	12: 3 AD alert	20: 3 Ex-temp alert																							
5: 4 input alert	13: Interior temp alert	21: 4 Ex-temp alert																							
6: 5 input alert	14: system power down	22: 5 Ex-temp alert																							
7: 6 input alert	15: Server call																								
<p><i>Read</i> <i>Command</i></p> <p>IOOC=?</p>																									

Example: config output0 on when input3 alert and output0 off when input3 recover

Linkage outputs

Output	When alert	When recover	Link with
No. 0	1: CLOSE ▼	0: OPEN ▼	3 INPUT ALERT ▼

The sms command is:
IOOC1666666606666666
IOOA04

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Setup timers

mtimer Setup system timers		
<i>Write</i> Command mtimer<n>=<HH>,<MM>,<action>	<i>Parameters</i> <n>: 0~5 (mtimer index) <HH>: 0~24 (hour) <MM>: 0~60 (minute) <action>: 0~39	<i>Example:</i> Setup send daily report sms at 17:50 everyday mtimer0=17,50,16
<i>Read</i> Command mtimer=?		
mspan Setup minutes timers		
<i>Write</i> Command mspan<n>=<min>,<action>	<i>Parameters</i> <n>: 0~5 (mspan index) <min>: 0~65535 (minute) <action>: 0~39	<i>Example:</i> Setup send daily report sms every 30 minutes mspan0=30,16
<i>Read</i> Command mspan=?		
sspan Setup second timers		
<i>Write</i> Command sspan<n>=<min>,<action>	<i>Parameters</i> <n>: 0~5 (sspan index) <min>: 0~65535 (second) <action>: 0~39	<i>Example:</i> Setup send daily report sms every 30 seconds sspan0=30,16
<i>Read</i> Command sspan=?		
mdate Setup week timers		
<i>Write</i> Command mdate<n>=<day>,<HH>,<MM>,<action>	<i>Parameters</i> <n>: 0~6 <day>: 0~6 (week day) <HH>: 0~24 (hour) <MM>: 0~60 (minute) <action>: 0~39	<i>Example:</i> Setup send daily report sms at 18:34 Monday Mdate0=0,18,34,16
<i>Read</i> Command mdate=?		



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Action index:

0: None	14: Pulse OC 3	28: Howl alarm
1: Disarm	15: Snapshot	29: Clocker
2: Arm	16: daily report sms	30: Enable buzzer
3: Driver OC 0 (output0 on)	17: Export state by uart0	31: Disable buzzer
4: Driver OC 1 (output1 on)	18: Upload state by sms	32: Upload din by gprs
5: Driver OC 2 (output2 on)	19: Exec user cmd0	33: Upload dout by gprs
6: Driver OC 3 (output3 on)	20: Exec user cmd1	34: Upload ain by gprs
7: OC 0 off	21: Exec user cmd2	35: Upload modbus by gprs
8: OC 1 off	22: Exec user cmd3	36: Upload graycode by gprs
9: OC 2 off	23: Exec user cmd4	37: Save samples to flash
10: OC 3 off	24: Exec user cmd5	38: Upload din counter
11: Pulse OC 0	25: Exec user cmd6	39: Din counter reset
12: Pulse OC 1	26: Upload state by gprs	
13: Pulse OC 2	27: Buzzer beep	

Setup User command

U Setup the User defined commands		
<p><i>Write Command</i></p> <p>U<nn>=<string></p>	<p><i>Parameters</i></p> <p><nn>:</p> <p>00: User defined command 0</p> <p>01: User defined command 1</p> <p>.....</p> <p>05: User defined command 5</p> <p><string>:</p> <p>user defined command contents</p> <p>max 24 characters</p>	<p><i>Example:</i></p> <p>Use “abc” instead of command “IOOH0”</p> <p>U00=abc</p>
<p><i>Read Command</i></p> <p>U<nn>=?</p>		
Y Setup the User defined commands mapped RTU commands		
<p><i>Write Command</i></p> <p>Y<nn>=<string></p>	<p><i>Parameters</i></p> <p><nn>:</p> <p>00: RTU command 0</p> <p>01: RTU command 1</p> <p>.....</p> <p>05: RTU command 5</p> <p><string>:</p> <p>RTU command contents</p> <p>max 24 characters</p>	<p><i>Example:</i></p> <p>Use “abc” instead of command “IOOH0”</p> <p>Y00=IOOH0</p>
<p><i>Read Command</i></p> <p>Y<nn>=?</p>		



SMS kommando Larmsändare CWT5xxx

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System operation commands

PW Setup system password

Write

Command

PW=<pad>

Parameters

<psd>: 6 digits

Example:

PW=123456

Read

Command

PW=?

DAYRP Query the RTU status (Daily report SMS)

Read

Command

DAYRP

ARM/BF Arm the RTU system

Execution

Command

ARM

DISARM/CF Disarm the RTU system

Execution

Command

DISARM

RST Reset the RTU power

Execution

Command

RST

LOADF Load factory settings

Execution

Command

LOADF