

## Programming the CM705E Rev 23 via SMS Messages

The CM705E can be programmed using SMS message to set the following items:

- All sensor upper and lower limits and their time delays
- All sensor names (20 char max)
- Unit name (20 char max)
- Eight different cell phone numbers (20 char max)
- Reminder Time, Status Time and Power Outage Time

### Sensor Upper Limit (range -950 to 950)

**U1:** to **U8:** external temperature sensors  
**U9:** internal temperature sensor  
**U10:** internal humidity sensor

U1:45  
U2:35  
U10: 20

### Sensor Lower Limit (range -950 to 950)

**L1:** to **L8:** external temperature sensors  
**L9:** internal temperature sensor  
**L10:** internal humidity sensor

L1:45  
L2:35  
L10: 20

### Sensor Time out of Limit (0 to 900, whole numbers only)

**T1:** to **T8** is the command to program the time delay for external temperature sensor 1 to 8  
**T9:** is the internal temperature time delay  
**T10:** is the internal humidity time delay  
**T11:** Door input 1 alarm time (range 0 to 900 minutes)  
**T12:** Door input 2 alarm time  
**T13:** Door input 3 alarm time  
**T14:** Door input 4 alarm time

T1:45  
T2:35  
T10:20  
T14:5

### Reminder Time, Status Time, Power Outage Time

**RT:** Reminder Time (range 15 to 900 minutes) ie. 60 minutes  
**ST:** Status Time (0 to disable, 1 to 24) ie. 13 is 1pm  
**PT:** Power out time (0 to 120 minutes) ie. 5 minutes

RT:60  
ST:13  
PT:5

### Units: Celsius or Fahrenheit

Units:C  
Units: F (see example)

Units:F

Input type: NO, NC, Water

- I1:** Input One
- I2:** Input Two
- I3:** Input Three
- I4:** Input Four

I1:NO  
I2:NC  
I3:water  
I4:NO

The four dry contact inputs can be configured as NO, NC or water.

The example shows Input 1 and Input 4 set to NO, Input 2 set to NC, Input 3 set to water sensor input

Alarm relay and Alarm buzzer

**AR:** Alarm Relay (OFF means the relay is de-energized in alarm, ON means the relay is energized in alarm)

**BZ:** Alarm Buzzer (OFF to disable, ON to enable)

AR:ON  
BZ:ON

The example show the alarm relay will be energized when a in an alarm condition, the buzzer is enabled so it will sound when in an alarm condition.

Cell Phone Numbers

Up to eight cell phone numbers can be programmed

- P1:** Cell phone number 1
- P2:** Cell phone number 2

this pattern repeats for numbers **P3:** and **P8:**

P1:8605551212  
P2:1234567890  
P8:8885551212

Sensor and Door Input Names

Sensor names can be up to 20 characters and therefore may require several SMS messages to fully program the sensor names.

Note: There must NOT be a space between the : and the sensor name.

If more than 20 characters are sent, only the first 20 will be programmed.

**N1:** is the command to program sensor 1's name

**N2:** is the command to program sensor 2's name

this pattern repeats for sensor names **N3:** to **N8:**

**N9:** is the internal temperature sensor name

**N10:** is the internal humidity sensor name

**N11:** Door input 1 name

**N12:** Door input 2 name

**N13:** Door input 3 name

**N14:** Door input 4 name

**NU:** Unit name

N1:  
N2:Vaccine Fridge  
N3:Walk-in Cooler  
NA:Door 1  
NB:Door 2

To delete a name enter only send the command ie. **N1:** (see example)

### Example

There are two temperature sensors connected to inputs 1 and 2 and one door sensors connected to input 1.

The limits are as follows:

Sensor 1 refrigerator: Upper limit 48, lower limit 37, time out of limits 15 minutes, name Refrigerator

Sensor 2 freezer: Upper limit 15, lower limit -40, time out of limits 30 minutes, named Freezer

Door 1 alarm time: 1 minute, named Fridge Door

For these limits send the follow message

**Note: Do not have a space between the : and the first character of the name** i.e. N1:Refrigerator

```
N1:Refrigerator
U1:48
L1:37
T1:15
N2:Freezer
U2:15
L2:-40
T2:10
N11:Fridge Door
T11:1
```

Additional commands

**Status?** Returns the status of all connected sensors

**Phone?** Returns all phone numbers

**Limits?** Returns the name, upper, lower limit, time delay of all programmed sensors

**Delays?** Returns the time delays for inputs, reminder, status time, power outage

**TESTCELL** Forces the CM705E to send the status to each programmed phone numbers. Command must be in capital letters.

### Password protect the CM705E

A four (4) digit password can be programmed to secure the CM705E. Once the password is programmed it must be included with each sms message sent to the CM705E. Letters and numbers are allowed. Capitalization matters.

**PW:** Is the command to program a password  
**CPW:** followed by the current password is the command to clear the password

```
PW:1234
```

```
CPW:1234
```

```
1234
L1:45
L2:35
```