

ARU1xx RS485 Command List

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Commands for ARU1xx

Address

Sxxx Switch unit xxx

Format

#| dest | source | command | arguments | crc | [0x0D][0x0A]

Dest

ALL For all ARU connected
Sxxx Specific ARU (Specify address)

Source

Maximum 4 char

Command

See list

Arguments

See list

CRC

U no crc used
xxxx CRC

Commands list

Configuration and setting commands

SAS

Set address switch unit

#|ALL|web|SAS|xxx|[crc]|[0x0D][0x0A]

xxx is address of unit

On receive the LED flashes.

If the switch is pressed the unit sends an ACK

Eg. #|ALL|web|SAS|199|UI|[0x0D][0x0A]

The ARU replies with *#|web|S199|SAS|+|3254|[0x0D][0x0A]* if sw pressed

ASF

End set address switch unit

#|ALL|web|ASF|UI|[0x0D][0x0A]

On receive the LED stops flashing.

Eg. #|ALL|web|ASF|UI|[0x0D][0x0A]

SDPU

Set power-up delay

```
#/S001/web/SDPUxI[crc]<CR><LF>
```

x = 1 delayed power up sequence at startup

x = 0 No delayed power up sequence at startup

unit replies with #/web/S001/SDPU+I[crc]<CR><LF>

#/ALL/S001/SDPUxI[crc]<CR><LF>

SGTYPE

Gets the type of Switch unit (4,8 or 16 relays)

```
#/S001/web/SGTYPEI[crc]<CR><LF>
```

Type = 04: 4 channel

08 : 8 channel

16 : 16 channel

unit replies with #/web/S001/SGTYPE/16I[crc]<CR><LF>

SSTYPE

Sets the type of Switch unit (4 8 16)

```
#/S001/web/SSTYPEIttI[crc]<CR><LF>
```

tt = 04: 4 channel

08: 8 channel

16: 16 channel

unit replies with #/web/S001/SSTYPE+I[crc]<CR><LF>

#/ALL/S001/SSTYPEIttI[crc]<CR><LF>

SGCFG

Get config

```
#/S001/web/SGCFGIIUI[0x0D][0x0A]
```

reply with

```
#/web/A001/SCFGITT^SAAA^PPIUI[0x0D][0x0A]
```

TT : Type 04, 08, 16

SAAA: Own address "S001"

PP: Powerup delay if 01

Relay commands

SRON

Switch on relay

```
#/S001/web/SRON/rrrrrrr[crc]<CR><LF>
```

*rrrrrrr = 32 bit hex value bit0 = relay 1 bit15 = relay 16
if bit = 1 then relay is set on*

ARU replies with Ack and sends the status of the relay to ALL

```
#/web/S001/SRON+|[crc]<CR><LF>
```

```
#/ALL/S001/SZSET/0001|[crc]<CR><LF>
```

SROFF

Switch off relay

```
#/S001/web/SROFF/rrrrrrr[crc]<CR><LF>
```

*rrrrrrr = 32 bit hex value bit0 = relay 1 bit15 = relay 15
if bit = 1 then relay is set off*

ARU replies with Ack and sends the status of the relay to ALL

```
#/web/S001/SROFF+|[crc]<CR><LF>
```

```
#/ALL/S001/SZSET/0001|[crc]<CR><LF>
```

SDELON

Switch delay on

All relays will be switched on with a delay

Direction relay1 -> relay16

This function can be programmed to do at powerup

– with the command “SDPU” argument ‘1’

– by shorting JP2 pin and 9 and 10

The potentiometer can be used to adjust the timing

```
#/S001/web/SDELON/ddd[d][c]r[crc]<CR><LF>
```

*ddd[d] is delay time between switching each relay 0 to 9999 in ms
if dddd = 0 then the potentiometer is used for timing*

ARU replies with Ack and sends the status of the relay to ALL

```
#/web/S001/SDELON+|[c]r[crc]<CR><LF>
```

```
#/ALL/S001/SZSET/0001|[c]r[crc]<CR><LF>
```

```
#/ALL/S001/SZSET/0002|[c]r[crc]<CR><LF>
```

.

.

```
#/ALL/S001/SZSET/FFFF|[c]r[crc]<CR><LF>
```

SDELOFF

Switch delay off

All relay will be switches off with a delay

Direction relay16 -> relay1

```
#!/S001/web/SDELON/dddd|[crc]|<CR><LF>
```

dddd is delay time 0 to 9999 in ms between switching each relay

if dddd = 0 then the potentiometer is used for timing

ARU replies with Ack and sends the status of the relay to ALL

```
#!/web/S001/SDELON+|[crc]|<CR><LF>
```

```
#!/ALL/S001/SZSETI7FFF|[crc]|<CR><LF>
```

```
#!/ALL/S001/SZSETI3FFF|[crc]|<CR><LF>
```

.

.

```
#!/ALL/S001/SZSETI0000|[crc]|<CR><LF>
```

Misc commands

WOS

Who is online Switch Unit

```
#!/ALL/web/WOS||UI|[0x0D]||[0x0A]
```

Unit replies with OS

Eg. #!/ALL/web/WOS||UI|[0x0D]||[0x0A]

reply #!/web/S001|OS|+|UI|[0x0D]||[0x0A]

SGREV

Get Revision

```
#!/S001/web/SGREV||UI|[0x0D]||[0x0A]
```

Switch unit replies with SREV

Eg. #!/S001/web/SGREV||UI|[0x0D]||[0x0A]

reply #!/web/S001|SREV|V1.0|UI|[0x0D]||[0x0A]

Paging commands

Commands to send

PGRQ

Paging request

If accepted ARU sends ACK else ARU sends NACK

```
#| address receiver | address sender | PGRQ | prio level ^ wallpanel port ^  
zones to page ^ loc/glob | crc |\r\n  
address receiver: S001 to S999  
address sender  
prio level: address of sender, if event then level = 0999  
wallpanel port : Not used for ARU  
zones to page : 32 bit bit0 = zone 1 bit31 = zone 32  
loc/glob 0 = local 1 = global Not used for ARU
```

If there is no local paging command, a local paging command with no zones selected is added

To prevent this, In the APM AWADDR must be configured without an argument
Eg. #|A001|web|AWADDR|||<CR><LF>

```
#|S001|A001|PGRQ|0999^01^00000008^0|U|\r\n  
A001 send request to S001 for zone4 00000000...00001000
```

ARU answers with

```
#|A001|S001|PGRQ|+|U|\r\n for ACK if paging not busy in requested zones
```

APM sends PGI1| to all selected zones

```
#|A001|S001|PGRQ|-|U|\r\n for NACK if paging busy in requested zones
```

APM sends PGI0| to all selected zones

PG

Start/stop paging

```
#|aaaa|A001|PG|s|U|\r\n  
aaaa = Address destination  
s = status 1: Start  
0: Stop
```

Eg. #|R006|A001|PG|1|U|\r\n
Start paging