

## Wind Speed and Direction UAP0011

**If using a standard AM702 please use the updated application UAP1073**

### This application is used with the “AM704-0101”

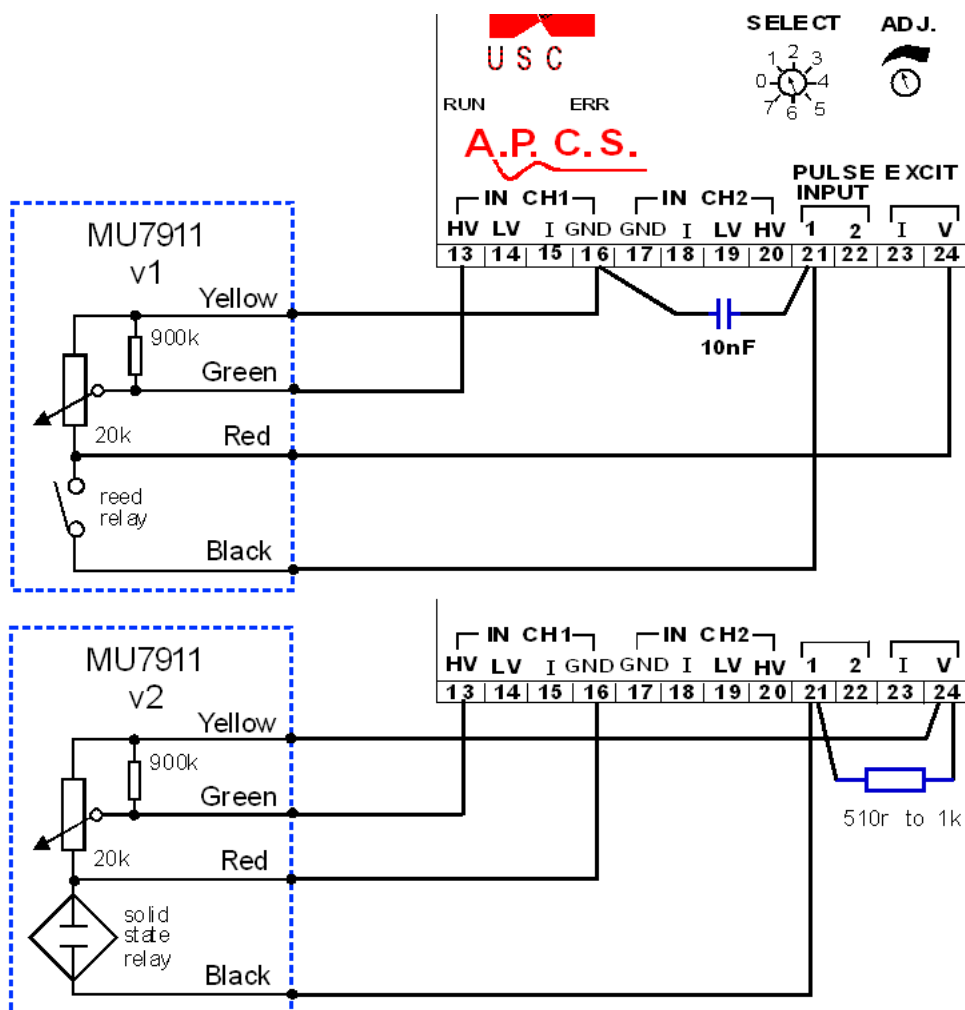
This program when used with the “AM704-0101 Wind Speed and Direction” access module can change the following parameters;

- Relay 1 can be set to trip at a selected wind speed, when the wind direction is between two selected levels.
- Relay 2 can be set to trip at a selected wind speed.
- On and off delays can be set.
- The analogue output type and levels can be set representing either wind speed or direction

### Connections And Setup

The direction sensor must be set using a grub screw after the mast-head unit is mounted to calibrate true north.

There are two types of masthead sensors. Version 1 has a reed switch while version 2 has a solid state sensor, please connect the sensor according to the masthead version supplied.



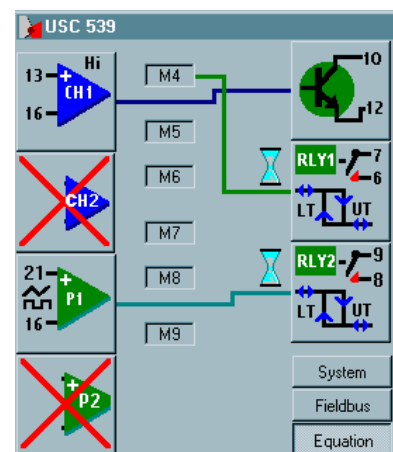
### Functional Description

If the wind direction is between limits set in constants **A** and **B** then the wind speed is saved in M4.

If the wind direction is not between the limits set in constants **a** and **b** then M4 = 0.

### Declarations

CH1	Deg	Wind direction,
P1	kph	Wind speed
M4	SpeRange	Wind speed if direction is within range
Constant a	DirLim1	Direction limit 1 (180)
Constant b	DirLim2	Direction limit 2 (90)
Constant c	FailVal	Fail value (0)
Timer enable:	N	
Update on in:	Y	



**Program List**

Command	Comment
Con_a	Determine if constant b is greater than constant a
Con_b	
Subtract	
If<0 Goto Prog A<B	
Read Ch1	Program used if a > b
Con_a	
Subtract	
If> 0 Goto FailCond	Goto FailCond if CH1 > a
Read Ch1	
Con_b	
Subtract	
If<0 Goto FailCond	Goto FailCond if CH1 < b
LAB: PassCond	Pass condition save the value of P1 in memory 4
Read P1	
Save Mem4	
Send M4	
Exit	-----
LAB: FailCond	Fail condition save 0 in memory 4
Con_c	
Save Mem4	
Send M4	
Exit	-----
LAB: Prog A<B	Program used if a < b
Read Ch1	
Con_a	
Subtract	
If<0 Goto PassCond	
Read Ch1	
Con_b	
Subtract	
If>0 Goto PassCond	
Goto FailCond	
Exit	-----