

# Display - Falcon

Flying lead version



## Description

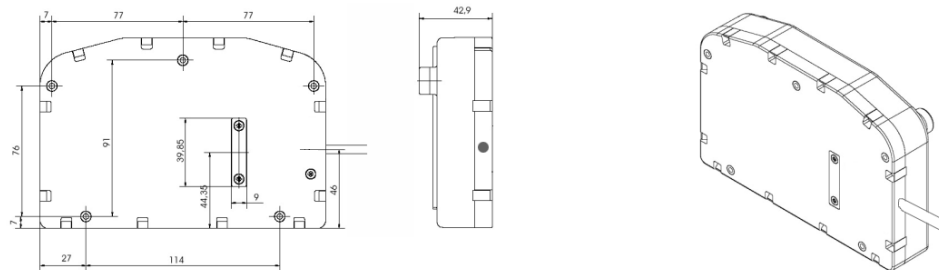
The falcon dashboard is able to function as a completely independent 'stand alone' information panel. It is also able to function as a remote display panel as part of a CAN network; in this CAN mode the display is able to both receive external channels, and transmit it's own internal channels back onto the CAN line.

This version differs significantly from the standard Falcon as it is intended to be used as a CAN device within a data acquisition system rather than a 'stand alone' dash. For this reason, only three of the analogue inputs are available along with lap time, all other analogue inputs including speed and RPM have been removed.

Electrical connection is via a 200mm flying lead fitted with a miniature 9 way Autosport connector



## Dimensions



## Technical Data

### Electrical / mechanical

Supply voltage ..... 9 > 16 Vdc  
Operating temperature ..... -20 > 70 °c  
Dimensions ..... 168 x 111 x 34 mm  
Housing ..... ABS moulding  
Environmental ..... IP64

### Analogue inputs

Total ..... 3  
Input voltage ..... 0-5 v  
Resolution ..... 10 bit  
CAN - TX ..... Up to 50Hz

### Voltage reference

Quantity ..... 1  
Level ..... 5 v

Output ..... 50 mA

### Track marker input

TTL Compatible ..... Yes  
Edge detection ..... Rising  
Filtering ..... EMI  
Lap time display ..... Min/Sec/Hun

### Additional

External page scroll ..... No  
MIN / Max speed latching ..... Yes

### CAN mapping

Default speed ..... 1 mbps  
Default primary address ..... 0x26C (108)  
Default ..... CAN Closed

## Ordering information

Part No.	Description	Order Code
903.02.7628.E01	Multi page LCD display – Flying lead version	Falcon – Flying Lead

RPM range to be specified at the time of ordering

For further details please contact

Competition Systems Ltd  
Hyjuniper, Long Lane  
Shaw, Berkshire,  
RG14 2TA  
England

Tel: +44 (0)8707 444666  
Fax: +44 (0)8707 444888  
mail@competitionsystems.co.uk

## RPM ranges available

1000.....	7000	1000.....	12000
500.....	8500	3000.....	13500
1000.....	9000	5000.....	15000
1000.....	10500	7000.....	19000

User defined on request

## Electrical connections

ASDD1 06 09 SN – On Dash			
1	Vbatt	Red	
2	Ground	Black	
3	5v Vref	Orange	
4	CAN P	White	
5	CAN N	Green	
6	Lap input	Blue	
7	AIN 1	Brown	DIP - 7
8	AIN 2	Yellow	DIP - 6
9	AIN 3	Violet	DIP - 5

Notes:

- Analogue input count starts at zero.
- Max wire size for loom side is 24awg
- Cable length from dash – 200mm
- Loom connector – ASDD6 06 09 PN

## Dip switches

8 Dip Switches Up			8 Dip Switches Down		
DIP	STATUS	NOTES	DIP	STATUS	NOTES
1	OFF (ON)	Gain 10 AN_4 (Gain 1)	1	ON	Connect filter to amplifier for ignition coil
2	OFF (ON)	Gain 10 AN_5 (Gain 1)	2	ON	Connect RPM input to filter for ignition coil
3	ON	Pull-up AN_7 input	3	ON	Connect RPM input directly to amplifier
4	ON	Pull-up AN_6 input	4	ON	Pull-up (or down) RPM input
5	ON	Pull-up AN_3 input	5	ON	Pull-up (or down) SPEED input
6	ON	Pull-up AN_2 input	6	ON (OFF)	Programming Mode (Working Mode)
7	ON	Pull-up AN_1 input	7	ON (OFF)	Gain 100 TC_IN_2 (Gain 10)
8	ON	Pull-up AN_0 input	8	ON (OFF)	Gain 100 TC_IN_1 (Gain 10)

