



KMD-550 NMEA Distribution Box

Features :

- Power Supply isolated
- Twelve RS422 outputs, three RS232 outputs and one speed closure signal (or Fifteen RS232 and one speed closure signal)
- High speed baudrate up to 38400
- Input signal isolated
- Every channel output isolated
- Can be used as two independent NMEA distribution box

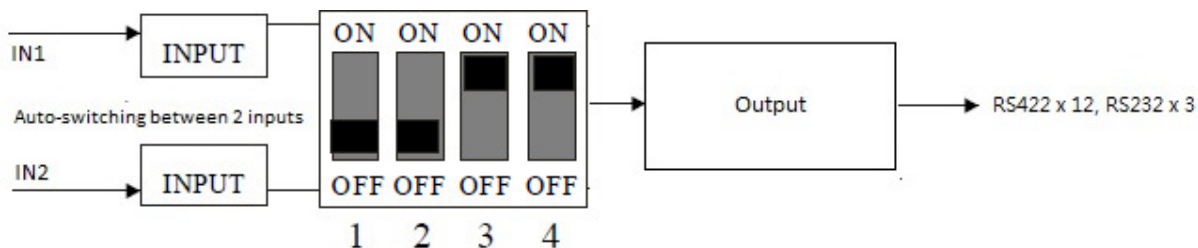
Installation Guide

1) Power connection : 24VDC, Pin 48 +ve, Pin 47 –ve

2) Switch setting :

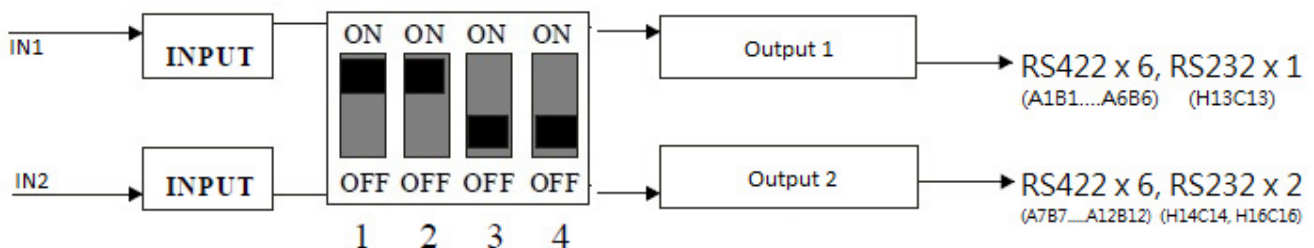
2.1 Setting 1 (default)

Auto switch between 2 input channels. IN1+ IN1- is the first input channel and IN2+ IN2- is second input channel. If there are no signal in 1st input it will auto switch to 2nd input automatically. There are total 15 outputs with this setting, RS422 x 12 and RS232 x 3



2.2 Setting 2 :

Use as two total independent distribution box, e.g. Input 1 connect to GPS (RMC) and Input 2 connect to Heading device (HDT) then 6 x RS422 (A1B1...A6B6) and 1 x RS232 (H13C13) will output RMC while 6 x RS422 (A7B7...A12B12) and 2 x RS232 (H14C2) will output HDT.



3) If there are a equipment onboard require closure pulse speed signal (200 pulse/knot) then you can connect pin 45 & Pin 43. It will convert the SOG data from GPS to pulse speed signal and output from pin 45 & 43.

4) RS232 connections for all outputs

You can use 15 outputs (RS422 x 12 and RS232 x 3) as RS232 connections (H1C1....H14C14, H16C16). Please follow the connections as below :

		H7		C7		H8		C8		H9		C9		H10		C10		H11		C11		H12		C12		H14		C		C		H16	
IN2(SHIFT)		OUT7(SHIFT)		OUT8(SHIFT)		OUT9(SHIFT)		OUT10(SHIFT)		OUT11(SHIFT)		OUT12(SHIFT)		RS232		FS		232 TT		24VD													
RD2-H/A	RD2-C/B	TD7-A	TD7-B	FG	TD8-A	TD8-B	FG	TD9-A	TD9-B	FG	TD10-A	TD10-B	FG	TD11-A	TD11-B	FG	TD12-A	TD12-B	FG	TD14-H	TD14/16-C	TD16-H	+										
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48										
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47										
RD1-H/A	RD1-C/B	TD1-A	TD1-B	FG	TD2-A	TD2-B	FG	TD3-A	TD3-B	FG	TD4-A	TD4-B	FG	TD5-A	TD5-B	FG	TD6-A	TD6-B	FG	TD13-H	TD13/15-C	T15-H	-										
IN1(DATA)		OUT1(DATA)		OUT2(DATA)		OUT3(DATA)		OUT4(DATA)		OUT5(DATA)		OUT6(DATA)		RS232		FG		V7S		0V													
		H1		C1		H2		C2		H3		C3		H4		C4		H5		C5		H6		C6		H13		C		C		H15	

Please contact Onwa Marine for any further questions : technical@onwamarine.com