

# Position Marker

## i-MARK 2, i-MARK 3



The purpose of the Position Marker is to determine exact locations of specially-equipped ILR® tags from IDENDEC SOLUTIONS' i-Q and i-B series. As the tag passes the induction loop connected to the Position Marker, it is "woken up" and identification data from the Position Marker is downloaded onto the tag. Depending on the type of tag, current as well as previous IDs and the relative time of passage over the loop are either repeatedly broadcast or they can be read from the tag by an ILR® reader at a later time and place. Because of the excellent ability to control the inductive field limits, both lane discrimination and direction recognition are possible. The Position Marker is typically mounted near

the induction loop and remains maintenance-free after setting the original parameters. There are two versions available: i-MARK 2 with integrated inductive antenna (loop) and i-MARK 3 for external loops.

Characteristics	i-MARK 2	i-MARK 3
<b>Compatibility</b>	ILR® i-Q and i-B tags with Marker Feature	
Frequency	125 KHz	
Modulation	100% AM	
Range (adjustable)	up to 3.5 m	up to 5 m (depending on loop)
Position data	16 bit (programmable)	
Loop current	max. 6 A <sub>pp</sub>	
Loop area	integrated	max. 100 m <sup>2</sup>
Loop width	-	min. 1m
Pass-over velocity	max. 100 km/h	max. 100 km/h (@ 1 m loop width)
Number of loops	1 (internal)	1 (external)
<b>User Interface</b>		
Bus	i-BUS (RS422)	
Manual	BlueTooth, Class 2, SPP Profile	
Indicators	4 LEDs, bicolour (Run, Loop, Bus, Error)	
Features	Programming of Loop ID	
	Setting of loop current (range)	
	Loop diagnosis	
<b>Electrical</b>		
Supply voltage	10 – 30 V DC / 85 – 265 V AC	10 – 30 V DC
Power consumption	max. 20 W	
<b>Environmental</b>		
Operating temperature	–30°C to +60°C	
Storage temperature	–40°C to +80°C	
<b>Physical</b>		
Dimensions	285 x 202 x 60 mm	94 x 170 x 86 mm
Enclosure	Plastic / Aluminium	
Weight	800 g	650 g
Enclosure rating	IP 54	IP 66
Cable feed	1 x M16 feed through, 2 x cable spouts (i-BUS, opt.)	2 x M16 feed through

### IDENDEC SOLUTIONS

IDENDEC SOLUTIONS is a leading global supplier of innovative RFID systems (Radio Frequency Identification) with communication ranges of up to 100 m.

With its unique Intelligent Long Range® (ILR®) technology, IDENDEC SOLUTIONS offers innovative and economical solutions for automated data gathering, identification, tracking and localization of objects.

ILR® technology makes it possible to ensure that

- the right goods,
- in the right amounts,
- in the right condition,
- with the right information
- are located at the right place
- at the right time,

leading to increased efficiency and quality improvements in Production, Logistics and Supply Chain Management. To learn more about how ILR® technology can increase efficiency of your business, contact IDENDEC SOLUTIONS or visit our website at [www.identecolutions.com](http://www.identecolutions.com).

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