

# Prisma Daps



**DIGITAL ACOUSTIC  
PEDESTRIAN SIGNAL**

**2000•M**

**TECHNICAL  
SPECIFICATIONS**

 **PRISMATIBRO**



	Push front	Led in front	Led Light ring	Night Option	Notification sound	Location sound: tick, tick, tick	Ambient noise control	Error Detection	Spoken message	Connection for external loudspeaker	Direction tactile arrow	Relief symbols	Vibrator at bottom lid	Vibrator and push function at bottom lid	Settings by Android app	Programming and RFID via NFC	Programming via USB Flash Drive	Colour	Anti-graffiti	Constant power supply 18-24V AC/DC	Constant power supply 28-49V AC/DC	Constant power supply 100-170V AC	Constant power supply 150-240V AC
Prisma Daps 2200•M Walk	●	●	●	●	●	●	●	○	●	●	●	●			●		●	○	○	○	○	○	○
Prisma Daps 2210•M Walk	●	●		●	●	●	●	○	●	●	●	●			●		●	○	○	○	○	○	○
Prisma Daps 2220•M Time		○	●	●		●	●	○	●	●	●	○			●		●	○	○	○	○	○	○
Prisma Daps 2230•M Time		○		●		●	●	○	●	●	●	○			●		●	○	○	○	○	○	○
Prisma Daps 2240•M Tram				●			●	○	●	●					●		●	○	○	○	○	○	○
Prisma Daps 2250•M Walk & Bike	●	●	○	●	●	●	●	○	●	●	●	●			●		●	○	○	○	○	○	○

## HEARING

### AUDIBLE INFORMATION

Audible information is mostly important for people with impaired vision. Locating sound is a help for pedestrians to locate the push button and gives important information about the status of the intersection. Follow the locating sound from opposite side to know the direction of the crosswalk.

<b>Sound level</b>	<ul style="list-style-type: none"> <li>Individually set for all phases (green, red, flashing green, flashing red, yellow) and internal and external loudspeaker</li> <li>Min and Max settings are adjustable in steps of 1dB</li> <li>Prisma_Sound nr 5, audible in ambient traffic noise up to 105dB (C)</li> <li>Sound frequency 180–7000Hz</li> </ul>		
<b>Ambient noise control</b>	<p>A microphone continuously measuring the ambient traffic noise to adjust the device sound level accordingly.</p> <ul style="list-style-type: none"> <li>Smart enough to know in which sound frequency to increase the sound or not, always audible but less disturbing</li> <li>Adjustable in level of 1 dB over ambient noise, from -15dB to +15dB</li> <li>Individually set for all phases</li> </ul>		
<b>Locating sounds: tick, tick, tick</b>	<p>A help for pedestrians to locate the push button and get the status of the intersection. Following the locating sound from opposite side, the pedestrian can cross the street safely.</p> <ul style="list-style-type: none"> <li>Prisma Daps 2000•M has 16 locating sounds as standard and can only be programmed with your own audio files in our factory.</li> <li>Recommended sound: Prisma_Sound_05</li> <li>Puls frequency 30 ppm–750 ppm</li> <li>Individually set for all phases</li> </ul>	<p><b>Effective sound without being louder</b></p> <ul style="list-style-type: none"> <li>Audible through all ambient traffic noise</li> <li>Easy to locate and find the source of the sound</li> <li>Not mistakable with other sounds in the urban environment</li> <li>Minimum disturbance for neighbors</li> </ul> <p>All these requirements is met in Prisma Daps unique original sound (Prisma_Sound_05) and the technics in Prisma Daps 2000.</p>	 
<b>Spoken message</b>	<p>An example of user application: Warning messages, emergency vehicle, roadwork, turist information.</p> <ul style="list-style-type: none"> <li>Choose from pre-recorded messages</li> <li>Possible to connect external signal through one of the three wires (1-3) to activate messages.</li> </ul>		
<b>Notification sound</b>	<p>After pushing the front you get a notification sound: Beep, as a response to your demand.</p>		

# VISION

## VISUAL INFORMATION

Visual information clarifies the status of the intersection and if the button is notified. Important for those with impaired hearing.



<b>Led light ring</b>	<ul style="list-style-type: none"> <li>• The wide LED light ring of the Prisma Daps gives light notification as a response to your demand.</li> <li>• LED light ring for increased visibility at long distance.</li> <li>• Notification light – different options – or constant light</li> <li>• Adjustable light intensity from 25–100%</li> <li>• Visibility 270° horizontal angle.</li> <li>• Possible options: Notification light – different options available. Constant light or the light ring turns on while pushing the front.</li> <li>• Light Character: Standard Yellow • Optional Cold white</li> </ul>
<b>Led light in front</b>	<ul style="list-style-type: none"> <li>• Notification light of your application – different options</li> <li>• The led lens in the front gives you a notification light as a response to your demand</li> <li>• Adjustable light intensity from 25-100%</li> <li>• Light Character Standard: Yellow Optional: Cold white</li> <li>• Red Error light activates in front in case of an error</li> <li>• Customized text is possible: LED in front can be supplied with a customized text on it, for example: "Wait"</li> </ul>

# TOUCH

## TACTILE INFORMATION

Direction arrow and relief symbols is essential for those with impaired vision. Don't forget the importance of information how to use the tactile information.



<b>Direction arrow</b>	<p>The tactile arrow shows the direction of the crosswalk.</p> <ul style="list-style-type: none"> <li>• Delivered with single and double arrow</li> </ul>
<b>Relief symbols</b>	<p>A tactile map which provides the visually impaired pedestrian with information on the exact condition of the roadway which is to be crossed.</p> <ul style="list-style-type: none"> <li>• Polycarbonate</li> <li>• The symbols are always arranged in the direction of travel from bottom to top</li> <li>• Always placed facing the walkway</li> <li>• Delivered with 7 different symbols as puzzle pieces.</li> </ul> <p>A description about the meaning of the symbols and direction arrows are available in the packaging.</p>

# INFORMATION

<b>Hearing</b> Audible information	<b>Vision</b> Visual information	<b>Tactility</b> Tactile information	<b>Pedestrian Walk</b>	<b>Time</b>	<b>Bike</b>	<b>Walk &amp; Bike</b>	<b>Tram</b>	<b>Bell Sound</b>	<b>Standard</b>	<b>Option</b>
<b>Colour Option</b> Blue, Gold, Yellow, Grey, Customized	<b>Anti-graffiti</b> Possible to add on all colours	<b>Push front Front glass</b> Possible to add customized text	<b>Settings</b> Customized settings from factory. Can be changed on site.	<b>Android App</b> for Prisma Daps 2000-M and Prisma Daps 2000-L	<b>Record and play or choose acoustics</b> <b>Prisma Daps 2000</b> has 16 standard locating sounds. <b>Prisma Daps 2000-L</b> gives you the possibility to record and upload your own audio files directly via our Prisma Android-app or pre-programmed from the factory. <b>Prisma Daps 2000-M</b> can only be programmed with your audio files in our factory. <b>All models</b> can play sounds.				<b>Without Location Sound</b>	








# PROGRAMMING

Programmable by Android App and transferable via USB flash drive.  
Easy to create configuration files or start with an existing file and make changes, save and send.

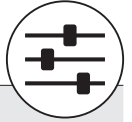


<b>Android App</b>	<ul style="list-style-type: none"> <li>• Android-app with user-friendly dialogues.</li> <li>• Android-app provided by PrismaTibro.</li> <li>• Functionality demand minimum version Android 4.4, Smartphone or Tablett</li> <li>• All products are delivered programmed from factory after your requirements</li> <li>• Programming for Prisma Daps 2000 is not backward compatible to previous series Prisma Daps 1000 or Prisma Daps TS-900</li> </ul>
<b>USB Transfer</b>	<ul style="list-style-type: none"> <li>• Placed behind the protective led lens in the front</li> <li>• USB-drive is an option provided by PrismaTibro</li> <li>• Programming of Daps 2000 is not backward compatible to previous series Prisma Daps 1000 or Prisma Daps TS-900</li> </ul>
<b>File management</b>	<ul style="list-style-type: none"> <li>• Easy to organize your different configuration files, named after your own system</li> </ul>
<b>Error detection</b>	<p>Prisma Daps 2000•M is able to detect internal errors and report them to the traffic controller in case of any failure. The following components can be monitored:</p> <ul style="list-style-type: none"> <li>• Microphone</li> <li>• Loudspeaker</li> <li>• Vibrator</li> <li>• Watchdog</li> <li>• Mother Board Supply</li> <li>• Relay 1</li> <li>• Relay 2</li> <li>• NFC</li> <li>• Push Front</li> <li>• Red and Green lamp always ON</li> <li>• Red and Green lamp always OFF</li> </ul> <p>Activated in the configuration file and created by Prisma Daps App 2.7 Compatible firmware 2.7.0.0 or higher. Recommended: Minimum 8-wire cable</p>

## INFORMATION

						
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# FUNCTIONALITY



<b>External loudspeaker</b>	<p>Prisma Daps 2000 can be used with external loudspeaker: Prisma Daps ES-400.</p> <ul style="list-style-type: none"> <li>• For intersections with an intensive traffic, wide streets with several lanes, it is recommended to connect an external loudspeaker.</li> <li>• To be installed at 2.5m high facing opposite side of the street</li> <li>• <b>REQUIREMENTS</b></li> <li>• To be installed at 2.5 meters above the ground facing opposite side of the street.</li> <li>• Prisma Daps connected with 10- or 13-wire cabling</li> </ul>
<b>Push functions</b>	<ul style="list-style-type: none"> <li>• The push front is pressure sensitive all over the front</li> <li>• Front push function: direct push and/or extended push, can be programmed in several ways.</li> <li>Examples: <ul style="list-style-type: none"> <li>• Announcement</li> <li>• Notification in sound and light</li> <li>• Increased volume</li> <li>• Extended green time</li> <li>• Special night options</li> </ul> </li> <li>• Can be delivered without push front for intersections with fixed-time schedule</li> </ul>
<b>Night option</b>	<ul style="list-style-type: none"> <li>• More options to program sound, light and functions during night time</li> </ul>
<b>Yellow phase</b>	<ul style="list-style-type: none"> <li>• Possible to program: <ul style="list-style-type: none"> <li>• "Error", sound and light</li> <li>• Activate a spoken message, for example: "Intersection is out of order"</li> </ul> </li> </ul>

## INFORMATION

<b>Hearing</b> Audible information	<b>Vision</b> Visual information	<b>Tactility</b> Tactile information	<b>Pedestrian Walk</b>	<b>Time</b>	<b>Bike</b>	<b>Walk &amp; Bike</b>	<b>Tram</b>	<b>Bell Sound</b>	<b>Standard</b>	<b>Option</b>





# TECHNICAL DATA SHEET

Prisma Daps 2000 has an electrical design to meet all requirements for constant power supply.	CONSTANT POWER SUPPLY*	CONTROL I/O	LAMP I/O
	18-24V AC/DC	10-50V AC/DC	10-50V AC/DC
	28-49V AC/DC	17-50V AC/DC	17-50V AC/DC
	100-240V AC	100-170V AC	50-170V AC
	100-240V AC	150-240V AC	120-250V AC
Protection Class	Class II, double insulated		
IK Rating	IK10		
IP Classification	IP55		
Power Consumption	Walk: 2,5-10W • Tram: 7,5-10,5W		
Locator sound frequency	880 Hz		
Min & Max volume	0 dBC, 30-87 dBC With connecting external loudspeaker: 100 dBC		
Light Character	Yellow, approx. 590nm wavelength		
Light Output	Led in front: 9 x 4000 Partial FLUX Led light ring: 32 x 4000 Partial FLUX		
Temperature Range	-40° F to 158° F -40°C to +70°C		
Humidity	0-100% RH		
Cabling	Standard 6 or 8-wire cabling. Adapter cabling is used when exchange of the electronic module from Prisma Daps TS-900 series, Prisma Daps 1000 to Prisma Daps 2000. Customized cabling on request.		
Colour	Blue anodization • Gold anodization • Yellow varnished • Gray varnished • Black varnished Other colours on request		
Anti-graffiti	Possible to add on all colours		
Housing Push Front	Aluminum No moving parts		
Lids Arrows	Polyamide PA66		
Dimensions			
Diameter to fit the pole	114 mm, 4.5 Inch		
Weight	≈ 2,5 kg		
Force to push the front	1 Newton 0.22 lbs		
Push front mechanical life	≈ 10 million presses		
Warranty	5 year		

\*Separate direct constant supply - not through the lamp cable

PrismaTibro 200914 • Reservation for errors and changes



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