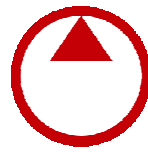


User-friendly click-on modules for A.P. van den Berg's digital cone (Icône)



a.p. van den berg
The CPT factory

For already 45 years A.P. van den Berg has been active in the design and supply of advanced equipment for onshore, nearshore and offshore in-situ soil investigation. A.P. van den Berg can provide complete or partial systems including the pushing equipment, tools and data acquisition systems. A.P. van den Berg is recognized for its innovative strength and supplies proven technology with renowned brand names like Track-Truck, HYSON, Optocone, WISON-APB, ROSON and Icône. The head office is based in Heerenveen, The Netherlands. An extensive web of professional agents and representatives all over the world, market the knowledge and expertise of A.P. van den Berg.

To obtain detailed and accurate information about the subsoil, A.P. van den Berg developed the Icône, a digital cone, and Icontrol, a digital data logger. Nowadays, a complete picture of the soil is more and more required and different parameters must be measured. For example, it may be required to derive both the in-situ soil properties like porosity and density as the location of any unexploded explosives; or both the saltwater-carrying layers as the dynamic properties like electrical conductivity and stress. A.P. van den Berg responds to this trend with development of user-friendly click-on modules for the Icône to measure additional parameters.

The Icône and Icontrol

The Icône measures the four standard parameters: cone tip resistance (q_c), sleeve friction (f_s), pore water pressure (u) and inclination (I_x/y). Thanks to the entirely digital data transfer, the influence of cables or connectors on the measured data is a thing of the past. The unique Icône concept combines strength and reliability and provides excellent value for money. The Icône is mechanically 40% stronger than its predecessor, the analogue cone, and at the same time more accurate, more reliable and easier to maintain. Calibration data is stored in the cone itself, so USB sticks are no longer necessary. With a minimal investment, this high quality data acquisition system can also be integrated in existing CPT rigs.

Icône now extendable with click-on modules

Unlike the analogue system, the digital system has no limits to the amount of data transfer. This property is creating room for additional parameters, without changing cable or control box/data logger. The Icône is easily extendable with click-on modules to measure other than the four standard parameters. A click-on module is automatically recognized by the data logger so it's a true plug & play system. The following modules are already available:

	<p>Seismic</p> <ul style="list-style-type: none"> - shear wave left, shear wave right and compression wave - elasticity modulus - poisson's ratio 		<p>Vane</p> <ul style="list-style-type: none"> - soil investigation in very soft soils - undrained shear strength - remoulded shear strength
	<p>Conductance</p> <ul style="list-style-type: none"> - detection of sand/clay layers - tracking of saltwater-carrying layers - detection of contamination 		<p>Magneto</p> <ul style="list-style-type: none"> - 3-dimensional detection of the magnetic field - detection of sheet piling, ground anchors and unexploded explosives

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