

kamstrup

OMNIA®
Antennas and
accessories



Antennas

	Units							
	OMNICON® 2G Modem	OMNICON® 4G Modem	Integrated RF in OMNIPOWER®	OMNIA® e-meter	OMNICON® data concentrator			Wireless M-Bus
					RF	2/3/4G	RF + 2/3/4G	
6880001 Triangle, 7.5 m cable with TNC connector, 12 pcs.					X			
6880002 Triangle with bracket, 7.5 m cable with TNC connector, 9 pcs.					X			
6880003 7.5 m cable with TNC connector					X			
6880004 15 m cable with TNC connector					X			
6880007 Triangle, 4.5 m cable with TNC connector, 12 pcs.					X			
6880008 Triangle with brackets, 4.5 m cable with TNC connector, 9 pcs.					X			
6880009 Glass fibre tube antenna With integrated RF antenna with 2 m cable with TNC connector and 2/3/4G antenna with 2 m cable with TNC connector							X	
6880011 LPCA 7 antenna With integrated RF antenna with 2 m cable with TNC connector and 2/3/4G antenna with 2 m cable with TNC connector							X	
6699496 Triangle, 30 cm cable with SMA connector for extension up to 30 m. SMA extension cable + adapter SMA-MCX or SMA-TNC			X		X			
6699454 Triangle, 0.5 m cable with MCX connector			X					
6699459 Triangle, 1 m cable with MCX connector, 45 pcs.			X					
6699407 Triangle, 2.5 m cable with MCX connector			X					
6699455 Triangle, 2.5 m cable with MCX connector, 45 pcs.			X					
6699408 Triangle, no cable			X					
6699445 Triangle, 5 m cable with MCX connector, 18 pcs.			X					
6699446 Triangle with bracket, 5 m cable with MCX connector, 12 pcs.			X					
6880017 LP4387 With integrated RF antenna with 1.5 m cable and MCX connector and Wireless M-Bus-antenna with 1.5 m cable and MCX connector					X			X
6880015 Mini triangle, 1 m cable, MCX connector	X	X		X ¹⁺³				X
6699448 Mini triangle, 2.5 m cable, MCX connector	X	X		X ¹⁺³				X
6880016 Mini triangle, 0.3 m cable, TNC connector						X		
6880012 Mini triangle, 2.5 m cable, TNC connector						X		
6880013 Mini triangle, 10 cm cable, SMA connector	X ¹	X ¹		X ¹⁺³		X ²		X ¹
6699458 Discos, 1.5 m cable with MCX connector	X							X

¹ with 5000429 [5 m extension] + 5000292 [SMA to MCX]

² with 5000429 [5 m extension] + 1643313 [SMA to TNC]

³ Order adapter PCB 6699727

Antennas

	Units							
	OMNICON® 2G Modem	OMNICON® 4G Modem	Integrated RF in OMNIPower®	OMNIA® e-meter	OMNICON® data concentrator			Wireless M-Bus
					RF	2/3/4G	RF + 2/3/4G	
6699449 Magnet, 1.5 m cable with MCX connector	X							
6699465 Cavity wall GSM, 2.5 m cable with MCX connector	X							
6880014 Directional, external antenna, without cable, SMA connector	X ¹	X ¹		X ¹⁺³		X ²		X ¹
6699442 Cavity wall RF, 2.5 m cable with MCX connector			X					

¹ with 5000429 [5 m extension] + 5000292 [SMA to MCX]

² with 5000429 [5 m extension] + 1643313 [SMA to TNC]






³ Order adapter PCB 6699727

Accessories

	Units							
	OMNICON® 2G Modem	OMNICON® 4G Modem	Integrated RF in OMNIPower®	OMNIA® e-meter	OMNICON® data concentrator			Wireless M-Bus
					RF	2/3/4G	RF + 2/3/4G	
1643313 Adapter SMA to TNC						X		
5000542 Adapter MCX (m) to SMA (m), 0.3 m	X	X		X				
5000292 Adapter MCX (m) to SMA (f), 0.3 m	X	X		X				X
5000543 Antenna cable SMA (F) to SMA (M), 1 m	X	X		X		X		X
5000544 Antenna cable SMA (F) to SMA (M), 3 m	X	X		X		X		X
5000429 Antenna cable SMA (F) to SMA (M), 5 m	X	X		X		X		X
5000441 Antenna cable SMA (F) to SMA (M), 10 m	X	X		X		X		X
5000442 Antenna cable SMA (F) to SMA (M), 15 m	X	X		X		X		X
5000443 Antenna cable SMA (F) to SMA (M), 20 m	X	X		X		X		X
5000444 Antenna cable SMA (F) to SMA (M), 25 m	X	X		X		X		X
6699417 Converter box			X					
6699441 Converter box for external antenna ¹			X					
6699460 Antenna cable for converter box, 50 m			X					
6699727 OMNIA® e-meter antenna adapter with MCX (F)				X				
6845010 Adapter print for external antenna on OMNICON® 4G		X						
5000540 Antenna splitter 1-4	X	X		X				
5000541 Antenna splitter 1-8	X	X		X				
5000545 50 ohm terminator	X	X		X				





¹ The combinations depend on the choice of cables.








OMNIA® Antennas and Accessories

Antenna	Description	
Triangle antenna	<p>Kamstrup's Triangle antenna is an extremely robust all-round smart metering antenna with a wide frequency spectrum that can be used for both meters, network components and wireless point-to-point units, e.g. 2G/3G modem modules.</p> <p>The Triangle antenna is used when there is a need for increased range to ensure optimal data transfer between the meter and the network and can be installed both indoors and outdoors.</p> <p>The Triangle antenna is easily installed in the meter without using any tools and vertically with 2 screws as high as possible on a plane base.</p> <p>The antenna can be supplied without antenna cable, with 0.5 m RG174 antenna cable, with 2.5 m RG174 antenna cable and MCX connector, \varnothing 3 mm or with 7.5 m RG58 low-loss antenna cable, \varnothing 5.5 mm.</p> <p>Frequency ranges: 434/444/900/1800 MHz.</p>	
6880007 6880001	<p>Only for OMNICON® data concentrator</p> <p>Delivered in boxes of 12 pcs.</p> <p>With 4.5 m cable with TNC connector (m)</p> <p>With 7.5 m cable with TNC connector (m)</p>	
6880008 6880002	<p>Only for OMNICON® data concentrator</p> <p>With bracket</p> <p>Delivered in boxes of 9 pcs.</p> <p>With 4.5 m cable with TNC connector (m)</p> <p>With 7.5 m cable with TNC connector (m)</p>	
6880009	<p>Only for OMNICON® data concentrator</p> <p>Glass fibre tube antenna</p> <p>With integrated RF antenna with 3 m cable with TNC connector and 2/3/4G antenna with 2 m cable with TNC connector</p> <p>Frequency range: RF: 430 – 450MHz (ISM band) 2/3/4G: 790 – 960, 1710 – 2690MHz (LTE bands)</p>	
6880011	<p>Only for OMNICON® data concentrator</p> <p>LPCA 7 antenna</p> <p>With integrated RF antenna with 2 m cable with TNC connector and 2/3/4G antenna with 2 m cable with TNC connector</p> <p>Frequency range: RF: 440 – 470MHz (ISM band) 2/3/4G: 790 – 960, 1710 – 2690MHz (LTE bands)</p>	
6880003 6880004	<p>Only for OMNICON® data concentrator</p> <p>With 7.5 m cable</p> <p>With 15 m cable</p> <p>TNC connector (m)</p>	

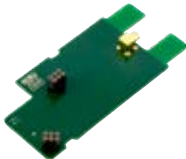



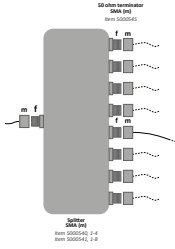
Antenna	Description	
<p>6699496</p> <p>6699454</p> <p>6699459</p> <p>6699407</p> <p>6699455</p>	<p>With 30 cm cable and SMA connector. For extension up to 30 m. Use SMA extension cable + adapter SMA-MCX (Meter) or SMA-TNC (Concentrator)</p> <p>With 0.5 m cable</p> <p>With 1 m cable, 45 pcs.</p> <p>With 2.5 m cable</p> <p>With 2.5 m cable, 45 pcs.</p> <p>MCX connector (m)</p>	
<p>6699408</p>	<p>Optional: Converter box (6699417) and antenna cable (6699460)</p> <p>Without cable</p>	
<p>6699445</p>	<p>With 5 m cable</p> <p>MCX connector (m)</p> <p>Delivered in boxes of 18 pcs.</p>	
<p>6699446</p>	<p>With bracket and 5 m cable</p> <p>MCX connector (m)</p> <p>Cable/bracket (12 pcs.)</p>	
<p>6880017</p>	<p>LP4387 antenna</p> <p>With integrated RF antenna with 1.5 m cable with MCX connector and Wireless M-Bus antenna with 1.5 m cable with MCX connector</p> <p>Frequency areas:</p> <p>RF: 440-470MHz (ISM band)</p> <p>Wireless M-Bus: 863-876 MHz</p>	
<p>Mini triangle antenna</p> <p>6880015</p> <p>6699448</p> <p>6880016</p> <p>6880012</p> <p>6880013</p>	<p>This is Kamstrup's preferred GSM antenna, which can be used for Wireless M-Bus as well.</p> <p>It can be mounted outdoors or indoors, typically on a wall or metal cabinet.</p> <p>With 1 m cable MCX connector (m) – must not be extended</p> <p>With 2.5 m cable MCX connector (m) – must not be extended</p> <p>With 0.3 m cable TNC connector (m) – must not be extended</p> <p>With 2.5 m cable TNC connector (m) – must not be extended</p> <p>With 10 cm cable SMA connector - extended up to 30 m + adapter SMA-MCX or SMA-TNC</p> <p>Frequency ranges:</p> <p>790-960, 1710-2170 and 2400-2690MHz (LTE bands)</p>	
<p>Disc antenna</p> <p>6699458</p>	<p>This GSM antenna can only be mounted on a metal cabinet.</p> <p>Dual-band 900/1800 MHz.</p> <p>It can be mounted outdoors and indoors.</p> <p>ø 90 mm</p> <p>With 1.5 m cable</p> <p>MCX connector (m)</p>	

OMNIA® Antennas and Accessories

Antenna	Description	
<p>Magnet antenna 6699449</p>	<p>This GSM antenna can only be mounted on metal. Dual-band 900/1800 MHz. It is easy to install and also easy to remove. With 1.5 m cable MCX connector (m) Frequency range: 900-1800 MHz dual-band</p>	
<p>Cavity wall GSM 6699465</p>	<p>This GSM antenna is designed to be concealed in the cavity wall and is especially convenient when meters are installed in a metal cabinet. Only a hole of \varnothing 16 mm is needed for the antenna to get the signal out of the cabinet. With 2.5 m RG316 cable MCX connector (m) Frequency range: 900-1800 MHz dual-band</p>	
<p>Directional external antenna 6880014</p> <p>5000543 5000544 5000429 5000441 5000442 5000443 5000444 5000292 1643313</p>	<p>This directional antenna is used in particularly demanding areas with a very poor GSM coverage. Since this antenna is larger than the mini triangle antenna, it is typically used in special cases. Frequency range: 824-960/1710-2170 MHz Dimensions: 110x110x200mm (LxWxH) Without cable SMA (M) connector The antenna is typically mounted outdoors on a wall or similar and is turned to pick up the best signal. The antenna is clicked into place to keep this position. It is fitted with an SMA (m) connector and must be used with extension cable and adapter. See below: 1 m SMA extension cable 3 m SMA extension cable 5 m SMA extension cable 10 m SMA extension cable 15 m SMA extension cable 20 m SMA extension cable 25 m SMA extension cable SMA - MCX adapter SMA - TNC adapter (for OMNICON® data concentrator) Remember to apply heat-shrinkable tubing with glue.</p>	
<p>Cavity wall RF 6699442</p>	<p>Dedicated RF antenna This plug-in antenna is a robust smart metering antenna that is often used when the meter is installed in a metal cabinet, and when there is need for increasing the range to ensure optimal data transfer between the meter and the network. The antenna is designed for installation inside the meter as well as inside the metal cabinet without using tools. Only a hole of \varnothing 16 mm is needed. Frequency range: 430/470 MHz With 2.5 m RG174 cable MCX connector (m)</p>	

Accessories	Description	
<p>Antenna adapter 1643313</p>	<p>This antenna adapter is used for antennas/cables with SMA connector, which makes it fit into the TNC plug on the concentrator. SMA to TNC adapter</p>	
<p>Antenna adapter 5000542</p>	<p>This antenna adapter is only used together with the antenna splitter. MCX (m) to SMA (m), 0.3 m</p>	
<p>Antenna adapter 5000292</p>	<p>This antenna adapter is used for antennas with SMA connector, which fits the small MCX connector of the module or in the meter. It is used together with antennas with SMA connectors and together with the extension cables. MCX (m) to SMA (f), 0.3 m</p>	
<p>Antenna cable</p> <p>5000543 5000544 5000429 5000441 5000442 5000443 5000444</p>	<p>Super low-loss SMA extension cable for 2/3/4G and Wireless M-Bus SMA (m) to SMA (f)</p> <p>1 m 3 m 5 m 10 m 15 m 20 m 25 m</p>	
<p>Antenna adapter 6699080</p>	<p>Adapter MCX angel for MCX straight.</p>	
<p>Converter box</p> <p>6699417 6699441 6699460</p>	<p>Box that is used to connect a thin antenna cable to a thick cable. The thin cable of 1.5 m is provided with an MCX connector and should be mounted on the module. The thick cable is to be purchased separately. Must not be used for 2/3/4G or Wireless M-Bus</p> <p>Box and thin antenna cable Box Thick antenna cable</p>	
<p>Antenna cable 6699460</p>	<p>Kamstrup RG58 low-loss antenna cable Length: 50 m Without connector</p>	

OMNIA® Antennas and Accessories

Accessories	Description	
External antenna adapter 6845010	To be used if an external antenna is needed for the 4G module. Remember to order an external antenna.	
OMNIA® e-meter antenna adapter 6699727	Adapter for external antenna Used if an external antenna is necessary for OMNIA® e-meter. Remember to also order an external antenna	
OMNIA® e-meter antenna adapter 9000013 6880015 6699727	Antenna kit for OMNIA® e-meter Antenna 1 m Adapter for external antenna	
Antenna splitter 5000540, 1-4 5000541, 1-8	Antenna splitter Used to split one antenna into 1-8 meters or modules 2/3G, LTE or NB-IoT In/out SMA (f)	
50 ohm terminator 5000545	Used together with the antenna splitter where no antennas are connected	

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