

S P E C I F I C A T I O N S

ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM300BN	CM3000
3. MEASURING OBJECT		Liquid	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	200 to 2000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±10 % 50/60 Hz
	5.2 Power Consumption	Approx. 4 VA	
	5.3 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and Housing)
	5.4 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and Housing)
	5.5 Output Signal	-----	4 to 20 mA DC (Resistive Load 600 Ω and under)
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	1 MPa Max. (+25℃) 100 kPa Max. (+40 to +120℃)	-----
	7. ENVIRONMENT	7.1 Working Temperature	Housing ; -10 to + 50 ℃ Detection Part; -10 to + 60 ℃ (Constant) +60 to +120 ℃ (Thirty minutes Max.)
7.2 Working Humidity		85 % RH Max.	
8. CONSTRUCTION		Detection Part ; Water-proof Construction (IP 68) Housing (Sensor) ; Jet-proof Construction (IP 65) Housing (Converter) ; (IP 10)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Die Casting (ADC12) (Silver Hammertone Coating)	Housing ; Steel structure (Munsell N7 Coating) Cover ; Acryl resin Surface panel ; Polyethylene terephthalate sheet (Munsell 7.5Y9/1 Coating)
	9.2 Materials of Plug	316 Stainless Steel	-----
	9.3 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.4 Mounting	Plug Mounting (R 1)	2 - φ4.5 Holes (Pitch 175 mm)
	9.5 Mass	Approx. 1.8 kg (L=1000 mm)	Approx. 1.5 kg
	9.6 Cable Inlet	JIS F 15c (G 1/2)	-----
	9.7 Recommendable Cable	CVVS 1.25 mm ² × 3C (Outside diameter : 10.0 mm)	
	9.8 Separated Length	200 m Max. (Cable length)	

W A R R A N T Y

NOHKEN INC. products are warranted for a period of 1(one) year from date of original factory shipment, provided that handling, operation and maintenance of products shall be subjected to "NOHKEN's INSTRUCTION MANUAL".

S P E C I F I C A T I O N S

ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM - BF	CM - A
3. MEASURING OBJECT		Liquid, Powder	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 10 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 600 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and Housing)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and Housing)
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	Detection Part; -40 to +130 °C Housing ; -10 to + 55 °C	-10 to +50 °C
	7.2 Working Humidity	85 % RH Max.	
8. CONSTRUCTION		Detection Part ; Water-proof Construction (IP 68) Housing(Sensor) ; Jet-proof Construction (IP 65) Housing(Converter) ; Spray-proof Construction (IP 54)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Casting (AC) (Silver Hammertone Coating)	Aluminium Casting (AC) (Silver Hammertone Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Flange Mounting (JIS 10K 50A)	4 - φ7 Holes (Pitch 120 × 275 mm)
	9.4 Cable Inlet	G 1/2	4 - G 1/2 , G 1/4
	9.5 Mass	Approx. 6.3 kg (L=1000 mm)	Approx. 5.0 kg

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S P E C I F I C A T I O N S

ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-BF	CM-A6
3. MEASURING OBJECT		Liquid, Powder	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
	4.3 Scale	-----	0 to 100 %
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 6 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 600 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and Housing)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and Housing)
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	Detection Part: -40 to +130 °C Housing : -10 to +55 °C	-10 to +50 °C
	7.2 Working Humidity	85 % RH Max.	
8. CONSTRUCTION		Detection Part : Water-proof Construction (IP 68) Housing (Sensor) : Jet-proof Construction (IP 65) Housing (Converter) : (IP 10)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Casting (AC) (Silver Hammertone Coating)	Housing ; Steel structure (Munsell N7 Coating) Cover ; Acryl resin Surface panel ; Polyethylene terephthalate sheet (Munsell 7.5Y9/1 Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Flange Mounting (JIS 10K 50A)	2 - φ4.5 Holes (Pitch 175 mm)
	9.4 Cable Inlet	G 1/2	-----
	9.5 Mass	Approx. 6.3 kg (L=1000 mm)	Approx. 1.5 kg

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S P E C I F I C A T I O N S

ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-BF	CM-P1
3. MEASURING OBJECT		Liquid, Powder	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 5 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 500 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and "E" Terminal)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and "E" Terminal)
	5.6 Wiring	Inductance : 1 mH Max. Capacitance : 0.1 μF Max.	
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	-10 to +40 °C	-10 to +40 °C
	7.2 Working Humidity	85 % RH Max.	
	7.3 Heat-proof Temperature	Detection Part; +130 °C	
8. CONSTRUCTION		Detection Part : Water-proof Construction (IP 68) Housing (Sensor) : Jet-proof Construction (IP 65) Housing (Converter) : Spray-proof Construction (IP 54) (Intrinsically Safe Construction i3nG5)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Casting (AC) (Silver Hammertone Coating)	Aluminium Casting (AC) (Silver Hammertone Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Flange Mounting (JIS 10K 50A)	4 - φ7 Holes (Pitch 120 × 275 mm)
	9.4 Cable Inlet	G 1/2	4 - G 1/2, G 1/4
	9.5 Mass	Approx. 6.3 kg (L=1000 mm)	Approx. 6.5 kg

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ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-BN	CM-A
3. MEASURING OBJECT		Liquid, Powder	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 10 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 600 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and Housing)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and Housing)
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	Detection Part; -40 to +130 °C Housing ; -10 to + 55 °C	-10 to +50 °C
	7.2 Working Humidity	85 % RH Max.	
8. CONSTRUCTION		Detection Part ; Water-proof Construction (IP 68) Housing(Sensor) ; Jet-proof Construction (IP 65) Housing(Converter) ; Spray-proof Construction (IP 54)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Die Casting (ADC12) (Silver Hammertone Coating)	Aluminium Casting (AC) (Silver Hammertone Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Plug Mounting (R 1)	4 - φ7 Holes (Pitch 120 × 275 mm)
	9.4 Cable Inlet	G 1/2	4 - G 1/2 , G 1/4
	9.5 Mass	Approx. 4.8 kg (L=1000 mm)	Approx. 5.0 kg

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ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-BN	CM-A 6
3. MEASURING OBJECT		Liquid, Powder	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F. S.	
	4.2 Accuracy	±3 % F. S.	
	4.3 Scale	-----	0 to 100 %
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 6 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 600 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and Housing)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and Housing)
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	Detection Part: -40 to +130 ℃ Housing : -10 to +55 ℃	-10 to +50 ℃
	7.2 Working Humidity	85 % RH Max.	
8. CONSTRUCTION		Detection Part ; Water-proof Construction (IP 68) Housing (Sensor) ; Jet-proof Construction (IP 65) Housing (Converter) ; (IP 10)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Die Casting (ADC12) (Silver Hammertone Coating)	Housing ; Steel structure (Munsell N7 Coating) Cover ; Acryl resin Surface panel ; Polyethylene terephthalate sheet (Munsell 7.5Y9/1 Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Plug Mounting (R 1)	2 - φ4.5 Holes (Pitch 175 mm)
	9.4 Cable Inlet	G 1/2	-----
	9.5 Mass	Approx. 4.8 kg (L=1000 mm)	Approx. 1.5 kg

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ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-BN	CM-P1
3. MEASURING OBJECT		Liquid, Powder	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 5 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 500 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and "E" Terminal)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and "E" Terminal)
	5.6 Wiring	Inductance : 1 mH Max. Capacitance : 0.1 μF Max.	
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	-10 to +40 °C	-10 to +40 °C
	7.2 Working Humidity	85 % RH Max.	
	7.3 Heat-proof Temperature	Detection Part; +130 °C	
8. CONSTRUCTION		Detection Part : Water-proof Construction (IP 68) Housing (Sensor) : Jet-proof Construction (IP 65) Housing (Converter) : Spray-proof Construction (IP 54) (Intrinsically Safe Construction i3nG5)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Die Casting (ADC12) (Silver Hammertone Coating)	Aluminium Casting (AC) (Silver Hammertone Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Plug Mounting (R 1)	4 - φ7 Holes (Pitch 120 × 275 mm)
	9.4 Cable Inlet	G 1/2	4 - G 1/2 , G 1/4
	9.5 Mass	Approx. 4.8 kg (L=1000 mm)	Approx. 6.5 kg

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ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-BPF	CM-A
3. MEASURING OBJECT		Liquid	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 10 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 600 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and Housing)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and Housing)
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	Detection Part; -40 to +130 °C Housing ; -10 to +55 °C	-10 to +50 °C
	7.2 Working Humidity	85 % RH Max.	
8. CONSTRUCTION		Detection Part ; Water-proof Construction (IP 68) Housing(Sensor) ; Jet-proof Construction (IP 65) Housing(Converter) ; Spray-proof Construction (IP 54)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Casting (AC) (Silver Hammertone Coating)	Aluminium Casting (AC) (Silver Hammertone Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Flange Mounting (JIS 10K 50A)	4 - φ7 Holes (Pitch 120 × 275 mm)
	9.4 Cable Inlet	G 1/2	4 - G 1/2 , G 1/4
	9.5 Mass	Approx. 6.8 kg (L=1000 mm)	Approx. 5.0 kg
	9.6 Others	With Stilling tube(φ27.2)	-----

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ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-BPF	CM-P1
3. MEASURING OBJECT		Liquid	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 5 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 500 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and "E" Terminal)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and "E" Terminal)
	5.6 Wiring	Inductance : 1 mH Max. Capacitance : 0.1 μF Max.	
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	-10 to +40 °C	-10 to +40 °C
	7.2 Working Humidity	85 % RH Max.	
	7.3 Heat-proof Temperature	Detection Part; +130 °C	
8. CONSTRUCTION		Detection Part : Water-proof Construction (IP 68) Housing (Sensor) : Jet-proof Construction (IP 65) Housing (Converter) : Spray-proof Construction (IP 54) (Intrinsically Safe Construction i3nG5)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Casting (AC) (Silver Hammertone Coating)	Aluminium Casting (AC) (Silver Hammertone Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Flange Mounting (JIS 10K 50A)	4 - φ7 Holes (Pitch 120 × 275 mm)
	9.4 Cable Inlet	G 1/2	4 - G 1/2, G 1/4
	9.5 Mass	Approx. 6.8 kg (L=1000 mm)	Approx. 6.5 kg
	9.6 Others	With Stilling tube (φ48.6)	-----

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S P E C I F I C A T I O N S

ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM - BPN	CM - A
3. MEASURING OBJECT		Liquid	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 10 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 600 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and Housing)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and Housing)
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	Detection Part; -40 to +130 °C Housing ; -10 to + 55 °C	-10 to +50 °C
	7.2 Working Humidity	85 % RH Max.	
8. CONSTRUCTION		Detection Part ; Water-proof Construction (IP 68) Housing(Sensor) ; Jet-proof Construction (IP 65) Housing(Converter) ; Spray-proof Construction (IP 54)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Die Casting (ADC12) (Silver Hammertone Coating)	Aluminium Casting (AC) (Silver Hammertone Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Plug Mounting (R 1)	4 - φ7 Holes (Pitch 120 × 275 mm)
	9.4 Cable Inlet	G 1/2	4 - G 1/2 , G 1/4
	9.5 Mass	Approx. 5.5 kg (L=1000 mm)	Approx. 5.0 kg
	9.6 Others	With Stilling tube(φ27.2)	-----

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ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-BPN	CM-A6
3. MEASURING OBJECT		Liquid	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
	4.3 Scale	-----	0 to 100 %
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 6 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 600 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and Housing)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and Housing)
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	Detection Part; -40 to +130 ℃ Housing ; -10 to + 55 ℃	-10 to +50 ℃
	7.2 Working Humidity	85 % RH Max.	
8. CONSTRUCTION		Detection Part ; Water-proof Construction (IP 68) Housing (Sensor) ; Jet-proof Construction (IP 65) Housing (Converter) ; (IP 10)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Die Casting (ADC12) (Silver Hammertone Coating)	Housing ; Steel structure (Munsell N7 Coating) Cover ; Acryl resin Surface panel ; Polyethylene terephthalate sheet (Munsell 7.5Y9/1 Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Plug Mounting (R 1)	2 - φ4.5 Holes (Pitch 175 mm)
	9.4 Cable Inlet	G 1/2	-----
	9.5 Mass	Approx. 5.5 kg (L=1000 mm)	Approx. 1.5 kg
	9.6 Others	With Stilling tube (φ27.2)	-----

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1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-BPN	CM-P1
3. MEASURING OBJECT		Liquid	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 5 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 500 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and "E" Terminal)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and "E" Terminal)
	5.6 Wiring	Inductance : 1 mH Max. Capacitance : 0.1 μF Max.	
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	100 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	-10 to +40 °C	-10 to +40 °C
	7.2 Working Humidity	85 % RH Max.	
	7.3 Heat-proof Temperature	Detection Part; +130 °C	
8. CONSTRUCTION		Detection Part : Water-proof Construction (IP 68) Housing (Sensor) : Jet-proof Construction (IP 65) Housing (Converter) : Spray-proof Construction (IP 54) (Intrinsically Safe Construction i3nG5)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Die Casting (ADC12) (Silver Hammertone Coating)	Aluminium Casting (AC) (Silver Hammertone Coating)
	9.2 Materials of Detection Part	Fluorinated-ethylene-propylene 304 Stainless Steel	-----
	9.3 Mounting	Plug Mounting (R 1)	4 - φ7 Holes (Pitch 120 × 275 mm)
	9.4 Cable Inlet	G 1/2	4 - G 1/2, G 1/4
	9.5 Mass	Approx. 5.5 kg (L=1000 mm)	Approx. 6.5 kg
	9.6 Others	With Stilling tube (φ 27.2)	-----

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ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-YL	CM-A
3. MEASURING OBJECT		Powder	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F.S.	
	4.2 Accuracy	±3 % F.S.	
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 10 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 600 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and Housing)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and Housing)
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	500 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	Detection Part; -40 to +130 °C Housing ; -10 to + 55 °C	-10 to +50 °C
	7.2 Working Humidity	85 % RH Max.	
8. CONSTRUCTION		Detection Part ; Water-proof Construction (IP 68) Housing(Sensor) ; Jet-proof Construction (IP 65) Housing(Converter) ; Spray-proof Construction (IP 54)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Casting (AC) (Silver Hammertone Coating)	Aluminium Casting (AC) (Silver Hammertone Coating)
	9.2 Materials of Detection Part	304 Stainless Steel	
	9.3 Mounting	Flange Mounting (JIS 5K 50A)	4 - Ø7 Holes (Pitch 120 × 275 mm)
	9.4 Cable Inlet	G 1/2	4 - G 1/2 , G 1/4
	9.5 Mass	Approx. 4.6 kg (L=1000 mm)	Approx. 5.0 kg

W A R R A N T Y

NOHKEN INC. products are warranted for a period of 1(one) year from date of original factory shipment, provided that handling, operation and maintenance of products shall be subjected to "NOHKEN's INSTRUCTION MANUAL".

S P E C I F I C A T I O N S

ITEM		SENSOR	CONVERTER UNIT
1. NAME		CAPACITIVE LEVEL MEASUREMENT	
2. MODEL		CM-YL	CM-A 6
3. MEASURING OBJECT		Powder	
4. OPERATION CHARACTERISTICS	4.1 Sensitivity	30 to 3000 pF F. S.	
	4.2 Accuracy	±3 % F. S.	
	4.3 Scale	-----	0 to 100 %
5. ELECTRICAL CHARACTERISTICS	5.1 Power Supply	-----	100 V, 200 V AC ±5 % 50/60 Hz
	5.2 Power Consumption	Approx. 6 VA	
	5.3 Output Signal	-----	4 to 20 mA DC (Resistive Load 600 Ω and under)
	5.4 Withstand Voltage	-----	1500 V AC one minute (Between power Terminal and Housing)
	5.5 Insulation Resistance	-----	500 V DC more than 100 MΩ (Between power Terminal and Housing)
6. MECHANICAL CHARACTERISTICS	6.1 Withstand Pressure	500 kPa Max.	-----
7. ENVIRONMENT	7.1 Working Temperature	Detection Part; -40 to +130 °C Housing ; -10 to + 55 °C	-10 to +50 °C
	7.2 Working Humidity	85 % RH Max.	
8. CONSTRUCTION		Detection Part ; Water-proof Construction (IP 68) Housing (Sensor) ; Jet-proof Construction (IP 65) Housing (Converter) ; (IP 10)	
9. PHYSICAL	9.1 Materials of Housing	Aluminium Casting (AC) (Silver Hammertone Coating)	Housing ; Steel structure (Munsell N7 Coating) Cover ; Acryl resin Surface panel ; Polyethylene terephthalate sheet (Munsell 7.5Y9/1 Coating)
	9.2 Materials of Detection Part	304 Stainless Steel	
	9.3 Mounting	Flange Mounting (JIS 5K 50A)	2 - φ4.5 Holes (Pitch 175 mm)
	9.4 Cable Inlet	G 1/2	-----
	9.5 Mass	Approx. 4.6 kg (L=1000 mm)	Approx. 1.5 kg

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