

SERIES BDF



Digits	4, 6
Digit height	60mm 100mm
Color	Red Green
Reading	999999/-999999 9999/-9999
Frontal	264x120mm 384x120mm
Mounting	Panel
Power	0 (230Vac) 1 (115Vac) 6 (24Vdc)
Output and control options	- - -
Accessories	Wall mount Full IP65 housing (wall) O-Ring for IP65 panel mount
Main features	Reading up to 20 meters and up to 40 meters Strong housing (made in extruded aluminium) Antirreflexive front lens Plug-in screw terminals IP65 front lens
Main function / Input signal	For Process For Pt100/RTD and Thermocouples Counter Ratemeter Time counter Chronometer Clock Protocol RS-485, RS-232 Parallel BCD

The Series BDF offers a wide range of large format meters, for all type of industrial applications.

The differential feature is the large digit size implemented, with versions with 60mm digit height and reading up to 20 meters, and versions with 100mm digit height and reading up to 40 meters.

Additionally, the Series BDF offers a strong and sturdy mechanical housing made from extruded aluminium and anodized in black color. The special front lens made from rough, antirreflexive tinted methacrylate, provides a sharp and clean reading even at long distances.






The Series BDF of large format meters do not provide options for signal and control outputs, but they are designed to work together with smaller Series K, M and S, that provide a wide range of inputs and control outputs. Series BDF can work as large format, long distance reading repeaters of the smaller sized series.

Designed for panel mount, it provides wall brackets option for wall mount, and even a full metal IP65 housing for more extreme environments.


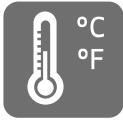
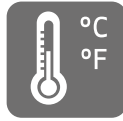



In short, the Series BDF is a strong and sturdy large format display, that provides sharp and clean reading up to 20 meters and 40 meters distance. Suitable for all type of industrial environments and applications, it is also designed to work together as repeater of the smaller but more advanced controllers from Series K, M and S.



MODELS






Model	BDF-24-21 BDF-44-21	BDF-24-22 BDF-44-22	BDF-24-23 BDF-44-23	BDF-24-24 BDF-44-24	BDF-24-25 BDF-44-25
Main function	LARGE DISPLAY FOR PT100/RTD 	LARGE DISPLAY FOR THERMOCOUPLE J 	LARGE DISPLAY FOR THERMOCOUPLE K 	LARGE DISPLAY FOR THERMOCOUPLE T 	LARGE DISPLAY FOR THERMOCOUPLE E 
Signals	Pt100/RTD (2 and 3 wires)	Thermocouple J	Thermocouple K	Thermocouple T	Thermocouple E
Digits	4	4	4	4	4
Reading	650,0/-100,0	600/-50	1250/0	400/-50	650/0
Digit height	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm
Channels	1	1	1	1	1
Excitation voltage	---	---	---	---	---
Notes	Direct reading in °C (Optional reading in °F, please check) Sensor break detection	Direct reading in °C (Optional reading in °F, please check) Sensor break detection	Direct reading in °C (Optional reading in °F, please check) Sensor break detection	Direct reading in °C (Optional reading in °F, please check) Sensor break detection	Direct reading in °C (Optional reading in °F, please check) Sensor break detection
Total error	<0,4%	<0,5%	<0,5%	<0,5%	<0,2%
Thermal drift	100ppm	100ppm	100ppm	100ppm	100ppm
Step response	---	---	---	---	---
Acquisitions	2,5/second	2,5/second	2,5/second	2,5/second	2,5/second
Power	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)
Consumption	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W
Isolation	1500Veff	1500Veff	1500Veff	1500Veff	1500Veff
Protection	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)
Output and control options	---	---	---	---	---
Configuration	---	---	---	---	---
Mounting	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)
Weight	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg
Depth	140mm	140mm	140mm	140mm	140mm

MODELS AND REFERENCES SERIES BDF



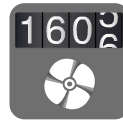
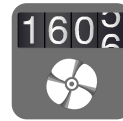

BDF-24-26 BDF-44-26	BDF-24-27 BDF-44-27	BDF-24-28 BDF-44-28	BDF-24-32 BDF-44-32	BDF-24-36 BDF-44-36	BDF-24-S BDF-44-S
LARGE DISPLAY FOR THERMOCOUPLE S	LARGE DISPLAY FOR THERMOCOUPLE R	LARGE DISPLAY FOR THERMOCOUPLE L	LARGE DISPLAY FOR PROCESS IN mA	LARGE DISPLAY FOR PROCESS IN mA	LARGE DISPLAY FOR SERIAL ASCII
					
Thermocouple S	Thermocouple R	Thermocouple L	4/20mA, 0/20mA, 0/50mA, ...	0/200Vdc, 0/100Vdc, 0/10Vdc, ...	RS-485, RS-232, RS-422, TTL, ...
4	4	4	4	4	4
1750/970	1750/1000	600/-50	9999/-9999	9999/-9999	9999/-9999
60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm
1	1	1	1	1	1
---	---	---	10 to 24Vdc (max. 50mA)	10 to 24Vdc (max. 50mA)	---
Direct reading in °C (Optional reading in °F, please check) Sensor break detection	Direct reading in °C (Optional reading in °F, please check) Sensor break detection	Direct reading in °C (Optional reading in °F, please check) Sensor break detection	Scalable reading	Scalable reading	Address from 1 to 31 Up to 19200bps 4 brightness levels
<0,1%	<0,2%	<0,5%	<0,2%	<0,2%	---
100ppm	100ppm	100ppm	100ppm	100ppm	---
---	---	---	<2Sec.	<2Sec.	---
2,5/second	2,5/second	2,5/second	3,5/second	3,5/second	---
0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)
<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W
1500Veff	1500Veff	1500Veff	1500Veff	1500Veff	1500Veff
FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)
---	---	---	---	---	---
---	---	---	By potentiometers	By potentiometers	By minidips
Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)
<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg
140mm	140mm	140mm	140mm	140mm	140mm



MODELS





Model	BDF-26-S BDF-46-S	BDF-24-BCD BDF-44-BCD	BDF-26-BCD BDF-46-BCD	BDF-24-T1 BDF-44-T1	BDF-26-T1 BDF-46-T1
Main function	LARGE DISPLAY FOR SERIAL ASCII  RS-485	LARGE DISPLAY FOR PARALLEL BCD CODE  BCD	LARGE DISPLAY FOR PARALLEL BCD CODE  BCD	IMPULSE COUNTER 	IMPULSE COUNTER 
Signals	RS-485, RS-232, RS-422, TTL, ...	Parallel BCD, Multiplexed BCD	Parallel BCD, Multiplexed BCD	NPN, PNP, Namur, pick-up, mechanical, inductive	NPN, PNP, Namur, pick-up, mechanical, inductive
Digits	6	4	6	4	6
Reading	999999/-999999	9999/-9999	999999/-999999	9999/-9999	999999/-999999
Digit height	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm
Channels	1	1	1	1	1
Excitation voltage	---	---	---	+15Vdc (max. 100mA)	+15Vdc (max. 100mA)
Notes	Address from 1 to 31 Up to 19200bps 4 brightness levels	Positive logic SUB-D connector Independent 'Hold' for each digit Function 'Test' Function 'Blank'	Positive logic SUB-D connector Independent 'Hold' for each digit Function 'Test' Function 'Blank'	Control for 'inhibition' Control for 'reset' Scalable reading by multipliers and dividers Up to 10KHz	Control for 'inhibition' Control for 'reset' Scalable reading by multipliers and dividers Up to 10KHz
Total error	---	---	---	---	---
Thermal drift	---	---	---	---	---
Step response	---	---	---	---	---
Acquisitions	---	---	---	---	---
Power	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)
Consumption	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W
Isolation	1500Veff	1500Veff	1500Veff	1500Veff	1500Veff
Protection	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)
Output and control options	---	---	---	---	---
Configuration	By minidips	---	---	With external keyboard	With external keyboard
Mounting	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)
Weight	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg
Depth	140mm	140mm	140mm	140mm	140mm

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BDF-24-T2 BDF-44-T2	BDF-26-T2 BDF-46-T2	BDF-24-T3 BDF-44-T3	BDF-26-T3 BDF-46-T3	BDF-24-T5 BDF-44-T5	BDF-26-T5 BDF-46-T5
IMPULSE COUNTER	IMPULSE COUNTER	IMPULSE COUNTER	IMPULSE COUNTER	IMPULSE COUNTER	IMPULSE COUNTER
					
NPN, PNP, Namur, pick-up, mechanical, inductive	NPN, PNP, Namur, pick-up, mechanical, inductive	NPN, PNP, Namur, pick-up, mechanical, inductive	NPN, PNP, Namur, pick-up, mechanical, inductive	NPN, PNP, Namur, pick-up, mechanical, inductive	NPN, PNP, Namur, pick-up, mechanical, inductive
4	6	4	6	4	6
9999/-9999	999999/-999999	9999/-9999	999999/-999999	9999/-9999	999999/-999999
60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm
1	1	1	1	1	1
+15Vdc (max. 100mA)	+15Vdc (max. 100mA)	+15Vdc (max. 100mA)	+15Vdc (max. 100mA)	+15Vdc (max. 100mA)	+15Vdc (max. 100mA)
Control for 'add/subtract' Control for 'reset' Scalable reading by multipliers and dividers Up to 10KHz	Control for 'add/subtract' Control for 'reset' Scalable reading by multipliers and dividers Up to 10KHz	Impulse counter with independent inputs for 'add' and 'subtract' Control for 'reset' Scalable reading by multipliers and dividers Up to 4KHz	Impulse counter with independent inputs for 'add' and 'subtract' Control for 'reset' Scalable reading by multipliers and dividers Up to 4KHz	Impulse counter for quadrature signals (bidirectional encoder) Control for 'reset' Scalable reading by multipliers and dividers Up to 5KHz	Impulse counter for quadrature signals (bidirectional encoder) Control for 'reset' Scalable reading by multipliers and dividers Up to 5KHz
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---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)
<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W
1500Veff	1500Veff	1500Veff	1500Veff	1500Veff	1500Veff
FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)
---	---	---	---	---	---
With external keyboard	With external keyboard	With external keyboard	With external keyboard	With external keyboard	With external keyboard
Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)
<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg
140mm	140mm	140mm	140mm	140mm	140mm



MODELS






Model	BDF-24-T6 BDF-44-T6	BDF-26-T6 BDF-46-T6	BDF-24-TF BDF-44-TF	BDF-26-TF BDF-46-TF	BDF-24-CRH BDF-44-CRH
Main function	IMPULSE COUNTER 	IMPULSE COUNTER 	RATEMETER 	RATEMETER 	COUNTER OF HOURS 
Signals	NPN, PNP, Namur, pick-up, mechanical, inductive	NPN, PNP, Namur, pick-up, mechanical, inductive	NPN, PNP, Namur, pick-up, mechanical, inductive	NPN, PNP, Namur, pick-up, mechanical, inductive	---
Digits	4	6	4	6	4
Reading	9999/-9999	999999/-999999	9999/-9999	999999/-999999	1999/0
Digit height	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm
Channels	1	1	1	1	1
Excitation voltage	+15Vdc (max. 100mA)	+15Vdc (max. 100mA)	+15Vdc (max. 100mA)	+15Vdc (max. 100mA)	---
Notes	Impulse counter for quadrature signals (bidirectional encoder) x4 Control for 'reset' Scalable reading by multipliers and dividers Up to 2,5KHz	Impulse counter for quadrature signals (bidirectional encoder) x4 Control for 'reset' Scalable reading by multipliers and dividers Up to 2,5KHz	Ratemeter Scalable reading by multipliers and dividers Up to 10KHz From 0,03Hz	Ratemeter Scalable reading by multipliers and dividers Up to 10KHz From 0,03Hz	Control for 'Start/Stop' Control for 'reset'
Total error	---	---	0,012%	0,012%	---
Thermal drift	---	---	---	---	---
Step response	---	---	---	---	---
Acquisitions	---	---	---	---	---
Power	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac)
Consumption	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W
Isolation	1500Veff	1500Veff	1500Veff	1500Veff	1500Veff
Protection	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)
Output and control options	---	---	---	---	---
Configuration	With external keyboard	With external keyboard	With external keyboard	With external keyboard	---
Mounting	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)
Weight	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg
Depth	140mm	140mm	140mm	140mm	140mm

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BDF-26-CRH BDF-46-CRH	BDF-24-CRM BDF-44-CRM	BDF-26-CRM BDF-46-CRM	BDF-24-CRS BDF-44-CRS	BDF-26-CRS BDF-46-CRS	BDF-24-CR7 BDF-44-CR7
COUNTER OF HOURS	COUNTER OF MINUTES	COUNTER OF MINUTES	COUNTER OF SECONDS	COUNTER OF SECONDS	COUNTER OF CENTS OF SECONDS
					
---	---	---	---	---	---
6	4	6	4	6	4
1999,99/0	9999/0	150000/0	9999/0	999999/0	99,99/0
60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm
1	1	1	1	1	1
---	---	---	---	---	---
Control for 'Start/Stop' Control for 'reset'	Control for 'Start/Stop' Control for 'reset'	Control for 'Start/Stop' Control for 'reset'	Control for 'Start/Stop' Control for 'reset'	Control for 'Start/Stop' Control for 'reset'	Control for 'Start/Stop' Control for 'reset'
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
0 (230Vac) 1 (115Vac)	0 (230Vac) 1 (115Vac)	0 (230Vac) 1 (115Vac)	0 (230Vac) 1 (115Vac)	0 (230Vac) 1 (115Vac)	0 (230Vac) 1 (115Vac)
<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W
1500Veff	1500Veff	1500Veff	1500Veff	1500Veff	1500Veff
FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)
---	---	---	---	---	---
---	---	---	---	---	---
Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)
<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg	<2,3Kg/<5,0Kg
140mm	140mm	140mm	140mm	140mm	140mm



MODELS

Model	BDF-26-CR7 BDF-46-CR7	BDF-24-TC2 BDF-44-TC2	BDF-26-TC3 BDF-46-TC3	BDF-24-TC4 BDF-44-TC4	BDF-24-TC5 BDF-44-TC5
Main function	COUNTER OF CENTS OF SECONDS 	CLOCK HH:MM 	CLOCK HH:MM:SS 	CHRONOMETER MM:SS 	CHRONOMETER HH:MM 
Signals	---	---	---	---	---
Digits	6	4	6	4	4
Reading	9999.99/0	24:00/00:00	24:00:00/00:00:00	99:59/00:00	99:59/00:00
Digit height	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm	60mm/100mm
Channels	1	1	1	1	1
Excitation voltage	---	---	---	---	---
Notes	Control for 'Start/Stop' Control for 'reset'	Format 12 or 24 hours RS-422 output for synchronization with models BDF-24-TCS	Format 12 or 24 hours RS-422 output for synchronization with models BDF-26-TCS	Up or down Independent control for 'start', 'stop' and 'reset' RS-422 output for synchronization with models BDF-24-TCS Transistor output when reaching 00:00	Up or down Independent control for 'start', 'stop' and 'reset' RS-422 output for synchronization with models BDF-24-TCS Transistor output when reaching 00:00
Total error	---	---	---	---	---
Thermal drift	---	---	---	---	---
Step response	---	---	---	---	---
Acquisitions	---	---	---	---	---
Power	0 (230Vac) 1 (115Vac) ---	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)	0 (230Vac) 1 (115Vac) 6 (24Vdc)
Consumption	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W	<5W/<10W
Isolation	1500Veff	1500Veff	1500Veff	1500Veff	1500Veff
Protection	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)	FRONT IP65 (optional full IP65 housing)
Output and control options	---	---	---	---	---
Configuration	---	SUB-D connector and internal minidips	SUB-D connector and internal minidips	SUB-D connector and internal minidips	SUB-D connector and internal minidips
Mounting	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)	Panel (optional wall mount)
Weight	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg	<2,7Kg/<5,7Kg
Depth	140mm	140mm	140mm	140mm	140mm