

EFGS series Force Gauge

Features

- Accuracy: $\pm 0.2\%$ FS
- Ergonomic, durable, heavy-duty metal construction
- Touch Pad
- Automatic reversible display
- Automatic load cell identification (ALI)
- Units: N, kN, kgf, tf, and lbf
- Connect to PC easily



Models

No.	Model	Capacity /Resolution	Load cell	Order No.
1	EFG10S-1K-S	1KN	ESP-F1K-S	41310011
2	EFG10S-2K-S	2KN	ESP-F2K-S	41310021
3	EFG10S-5K-S	5KN	ESP-F5K-S	41310051
4	EFG10S-10K-S	10KN	ESP-F10K-S	41310101
5	EFG10S-20K-S	20KN	ESP-F20K-S	41310201
6	EFG10S-10K-R	10KN	ESP-F10K-R	41310102
7	EFG10S-20K-R	20KN	ESP-F20K-R	41310202
8	EFG10S-50K-R	50KN	ESP-F50K-R	41310502
9	EFG10S-100K-R	100KN	ESP-F100K-R	41311002
10	EFG10S-200K-R	200KN	ESP-F200K-R	41312002



EFG10S Force Indicator

Dimensions in mm

EFG10S Force Indicator

No.	Model	Order No.
1	EFG10S	41301000

Model	Capacity/Resolution				
	N	kgf	lbf	kN	tf
ESP-F1K-S	1000/0.1	100/0.01	220/0.05		
ESP-F2K-S	2000/0.5	200/0.05	450/0.1		
ESP-F5K-S	5000/1	500/0.1	1100/0.1		
ESP-F10K-S	10000/1	1000/0.1	2250/0.5	10/0.001	
ESP-F20K-S		2000/0.5	4500/1	20/0.005	
ESP-F10K-R	10000/1	1000/0.1	2250/0.5	10/0.001	
ESP-F20K-R		2000/0.5	4500/1	20/0.005	
ESP-F50K-R		5000/1	11k/0.001k	50/0.01	5/0.001
ESP-F100K-R			22k/0.005k	100/0.01	10/0.001
ESP-F200K-R			44k/0.01k	200/0.05	20/0.005



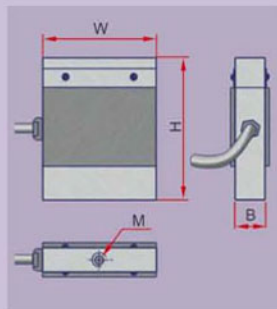
Load Cell

No.	Model	Capacity			Order No.	Type
		N	kgf	lbf		
1	ESP-F1K-S	1k	100	220	41001011	S-beam 
2	ESP-F2K-S	2k	200	440	41001021	
3	ESP-F5K-S	5k	500	1100	41001031	
4	ESP-F10K-S	10k	1k	2.2k	41001041	
5	ESP-F20K-S	20k	2k	4.4k	41001051	
6	ESP-F10K-R	10k	1k	2.2k	41001012	Ring 
7	ESP-F20K-R	20k	2k	4.4k	41001022	
8	ESP-F50K-R	50k	5k	11k	41001032	
9	ESP-F100K-R	100k	10k	22k	41001042	
10	ESP-F200K-R	200k	20k	44k	41001052	

	S type 	R type 
Rated Output(mV / V)	2.0±1	1.5±5
Zero Balance(%F.S.)	±2	±2
Non-linearity(%F.S.)	0.03	0.05~0.1
Hysteresis(%F.S.)	0.03	0.05~0.1
Temp. Effect(F.S./10°C)	0.03	0.05%
Operation Temp.(°C)	-20 ~ 60	-35 ~ 65
Safe Overload(F.S.)	150%	120%
Input Impedance(Ω)	410±10	410±10
Output Impedance(Ω)	350±5	350±5
Protection Class	IP76	IP76

S-Beam load cell

	Capacity	Dimension(mm)			
		W	H	B	M
ESP-F1K-S	1kN	51	76.2	19	M12X1.75
ESP-F2K-S	2kN			25.4	M18X1.5
ESP-F5K-S	5kN				
ESP-F10K-S	10kN				
ESP-F20K-S	20kN	76.2	108		



Accessories(optional)

Measuring Head

Flat Push Tip	Name	Model of Load cell
	Flat Push Tip M12	ESP-F1K-S,ESP-F2K-S,ESP-F5K-S,ESP-F10K-S
	Flat Push Tip M18X1.5	ESP-F20K-S

Adapter	Name	Model of Load cell
	Adapter M12	ESP-F1K-S,ESP-F2K-S,ESP-F5K-S,ESP-F10K-S
	Adapter M18X1.5	ESP-F20K-S

Pull Clamp	Name	Model of Load cell
	Pull Clamp M12	ESP-F1K-S,ESP-F2K-S,ESP-F5K-S,ESP-F10K-S
	Pull Clamp M18X1.5	ESP-F20K-S



Ring load cell

	Capacity	Dimension(mm)						
		D	d	L	H	SR	D1	M
ESP-F10K-R	10kN	32	8	14	16	16	24.5	3-M5
ESP-F20K-R	20kN	38	11				30	
ESP-F50K-R	50kN							
ESP-F100K-R	100kN	82	22	32	44	50	68	4-M8
ESP-F200K-R	200kN	100	28	36	48	120	80	

Accessories

Base		Model of Load cell							
Protect									
Plate		1 pcs(Mount on Load cell)							
		ESP-F10K-R,ESP-F20K-R,ESP-F50K-R							

