

KATflow 220 (Issue 08/03)

Portable flowmeter

KATflow 220	Portable ultrasonic flowmeter KATflow 220, two flow channels, serial interface RS 232 including operating instructions, English													
Configuration														
0	basic unit without accessories													
1	with standard accessories including transport case, power adapter and battery charging unit and measuring tape													
Z	special (please consult factory)													
Power cord														
0	without													
1	UK													
2	US													
3	Europe													
Z	special													
Degree of protection														
1	IP 54 (standard)													
2	IP 67													
Z	special (please consult factory)													
Process outputs														
<i>Slot 1</i>														
N	without													
C	current output 0/4 ... 20 mA, active (source)													
P	current output 0/4 ... 20 mA, passive (sink)													
U	voltage output 0 ... 1 V													
V	voltage output 0 ... 10 V													
F	frequency output 0 ... 1 kHz													
G	frequency output 0 ... 10 kHz													
D	digital output, Open-Collector													
R	digital output, relay													
Z	special (please consult factory)													
<i>Slot 2</i>														
N ... Z	(please select as per slot 1)													
<i>Slot 3</i>														
N ... Z	(please select as per slot 1)													
<i>Slot 4</i>														
N ... Z	(please select as per slot 1)													
Process inputs														
<i>Slot A</i>														
N	without													
A2	2 x PT100 temperature input													
B2	2 x current input 0/4 ... 20 mA, active (source)													
E2	2 x current input 0/4 ... 20 mA, passive (sink)													
H2	2 x voltage input 0 ... 1 V													
Z	special (please consult factory)													
<i>Slot B</i>														
N ... Z	(please select as per slot A)													
Internal data logger														
0	without													
1	standard 27,000 values, including data download software KATdata and RS 232 cable													
2	extended 100,000 values, including data download software KATdata and RS 232 cable													
Z	special (please consult factory)													
Heat quantity measurement (HQM)														
0	without													
1	with HQM including 2 x PT100 clamp-on sensors													
Z	special (please consult factory)													
Sound velocity measurement (SVM)														
0	without													
1	with SVM													
Z	special (please consult factory)													
Wall thickness measurement (WTM)														
0	without													
1	with wall thickness probe NT incl. Cable													
2	with wall thickness probe HT incl. Cable													
Options														
N	without													
Ex	suitable for connection with ha													
Z	special (please consult factory)													

Order code	KF220	1	1	1	C	N	N	N	A2	N	1	1	0	1	N
------------	-------	---	---	---	---	---	---	---	----	---	---	---	---	---	---

Clamp-on transducers

Pipe diameter range	
S2	pipe diameter range 6 ... 40 mm (standard temperature range only)
Q3	pipe diameter range 10 ... 400 mm
M2	pipe diameter range (50) 100 ... 2500 mm
M3	pipe diameter range (50) 100 ... 6500 mm (standard temperature range only)
Z	special
Temperature range	
N	standard process temperature -30 ... 130 °C, including acoustic coupling component
E	extended process temperature -30 ... 200 °C (300 °C), including acoustic coupling component
Z	special, process temperature up to 500 °C (please consult factory)
Internal code	
x	always 7
Degree of protection	
1	degree of protection IP 65
Z	special (please consult factory)
Transducer accessories	
0	no mounting accessories
4	with clips and chains DN 15 ... 310
5	with clips and chains DN 25 ... 600
6	with clips and chains DN 25 ... 1200
7	with mounting fixture, rail and chains DN 6 ... 40 (always for S-type sensors)
8	with mounting fixture, rail and magnets DN 10 ... 250 (optional for Q-type sensors)
9	with mounting fixture, rail and magnets DN 50 ... 3000 (optional for M-type sensors)
Z	special mounting accessories (please consult factory)
0	without stainless steel tag
1	with stainless steel tag (please specify text)
Electrical connection and cable length	
P	with LEMO connectors (for portable unit)
E	000 without extension cable
E	005 with extension cable, 5 m length
E	010 with extension cable, 10 m length
E	— with extension cable, special (specify in m)
Z	special (please consult factory)
x	x
x	x
Order code	
Q3	N
7	1
4	0
P	E
000	