



Oval wheel meter  
with pulse pick-up  
and mechanical counters

OaP-Serie  
AG 19/20/45  
E/D/M5

## Operation Manual




## 5. Output

### 5.1 Output Signal

#### 5.1.1 Pulse pick-up AG 19, AG 20 and AG 45

##### AG 19 and AG 20

###### Technical Data

number of slots	1/2/10/20/32
max. revolutions per minute	350/min
max. pulse frequency	187 Hz depending on counter type
allowed ambient temperature	-25 to + 90°C
housing protection type	IP 54 (DIN 40 050)
Control head protection type	IP 67 (DIN 40 050)
Ex-protection	PTB 99 ATEX 2219 X  II 2G EEx ia IIC T6
Connection of external devices	in compliance with DIN EN 60947-5-6 (NAMUR) and Ex-approval

oval wheel meter data					pulse pick-up frequency in relation to Qnominal									
serie	DN mm	Q nenn l min	nAG U min	Anzeige Zählwe k l	number of slots in the flag disc									
					≤10 HZ for: remote metering		> 10 HZ for: regulation, display recording etc.							
					1	2	10	10	20	32	Imp. 1)	Imp. 1)	Imp. 1)	Imp. 1)
					l	l	s	l	s	l	s	l	l	
OaP 2	25	30	3 30 300	10 l	0,1 10		1 10	50 100	100 200	160 320				
OaP 5	25	50	5 50 250	10 l	0,1	1 10	41,7 50	83,3 100	133 160					
OaP 10	25	100	10 100	10 l	0,1	1	16,6 10	33,3 20	53,3 32					
OaP 50	50	300	30 300	10 l	0,1	1	50 10	100 20	160 32					
OaP 125	65	700	7 350	100 l	0,01	0,1	58,3 5	117 10	187 16					
OaP 250	80	1200	12 120	100 l	0,01	0,1	20 1	40 2	64 3,2					
OaP 600	100	3000	30 300	100 l	0,01	0,1	50 1	100 2	160 3,2					
OaP 1200	150	5000	5 50 250	100 l	0,01	0,1	41,7 0,5	83,3 1	133 1,6					
OaP 2000	200	8000	8 80	1 m³	0,001	0,01	13,3 0,1	26,7 0,2	42,7 0,32					
OaP 3200	300	12000	12 120	1 m³	0,001	0,01	20 0,1	40 0,2	64 0,32					
OaP 4000	400	20000	20 200	1 m³	0,001	0,01	33,3 0,1	66,7 0,2	107 0,32					

1) exact value is recorded in the calibration data sheet after the calibration