

# Option Specs

Option 71, Option 72

Distribution in the UK & Ireland



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**AROGIC**

## Basic Demodulation(option 71)

### Measurement function

Modulation type	ASK	2ASK
	FSK	2, 4
	PSK	BPSK, QPSK, 8PSK
	QAM	16, 32
Oversampling rate	4-64	
Symbol rate	$\left(\frac{1}{4} \sim \frac{1}{64}\right) \text{Sampling rate}$	

### Filter

Filter type	root-raised-cosine
Alpha	0.35

### Measurement/display

Constellation diagram		
Spectrum diagram		
Eye diagram		
Symbol Error Statistics Table	PSK/QAM	EVM, Mag Error, Phase Error (RMS, Peak) Freq Error (Peak) SNR (MER)
	ASK	ASK Error (RMS, Peak) Carr Offset (Peak)
	FSK	FSK Error, Mag Error (RMS, Peak) Carr Freq Offset Deviation

## Pulse signal measurement (option 72)

### Measurement function

Type	Content of measurement	Results/parameters
Pulse result table	Level(dBm)	Top Level, Base Level, Top/Base
	Droop(dB)	-
	OverShoot(dB)	-
	Ripple(dB)	-
	Time	Rise time, rising edge, fall time, falling edge, pulse width, cycle, duty cycle (%)
Current statistics	Minimum, maximum, average and cycle deviation of pulse width and cycle measurement results(%)	

### Measurement accuracy

Width	$\pm 2 / \text{Sampling rate}$
Pulse period (PRI)	$\pm 2 / \text{Sampling rate}$

Note: SNR  $\geq 30$ dB, pulse width  $\geq 10 / \text{sampling rate}$ .

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