

1 Technical data

Type	GSP02 N55/xxx	GSP02 L38/xxx	GSP02 N76/xxx
Detector Scintillator	Nal(Tl)	LaBr3(Ce) SGC	Nal(Tl)
Detector size	55x55mm -> 2"	38x38mm -> 1.5"	76x76mm -> 3"
Measuring range	10 nSv/h ÷ 50 µSv/h ext1: 10 nSv/h ÷ 1 Sv/h ext10: 10 nSv/h ÷ 10 Sv/h	10 nSv/h ÷ 100 µSv/h	10 nSv/h ÷ 50 µSv/h ext1: 10 nSv/h ÷ 1 Sv/h ext10: 10 nSv/h ÷ 10 Sv/h
Energy range (Crystal)	33 keV ÷ 2 MeV		33 keV ÷ 3 MeV
Dose-rate energy dependence	±30%, ref. Cs-137		
Energy resolution FWHM at Cs137	< 7%	< 3,5%	< 7%
Multichannel analyser	1024 channel		
Temperature range	-30°C ÷ +60°C		
Temperature dependence	less than ±3keV		
Measuring uncertainty	H*10 ≤ 50 µSv/h: ±15%		
Mass	< 3 kg		
Dimensions	Outdoor: Ø76mm x ~480mm Indoor: Ø80mm x ~355mm		Outdoor: Ø100mm x ~505mm Indoor: ~Ø84mm x ~390mm
Output	RS-232, RS-485, RS-422, USB	WEB	
Protokoll version ¹	AMS-MCA, OS€, OS@, BOREAS	http, ftp, ssh, telnet	
Real time clock	Yes		
Data storage memory	2Gbyte µSD card		
Real time data	Yes		
Additional software	GsAnalScint(Java 🇩🇪), AMS02View, AMS02tst, Procomm,	Bitt Scada, IP to COM port redirector, Bittsens SL (when using in direct data mode), web browsers (IE, Firefox, Safari, etc.), FTP clients, SSH clients, TELNET clients	
Power consumption ²	approx. 1W		approx. 2W
Max. cable length between detector and evaluating unit	RS232...up to 50m RS485,422...up to1200m (with external power supply ⁴)		Up to 100m

¹ BSN Bittsens protocol, it answers on all request, report is generated automatically
 BSS Selective Bittsens protocol, it answers only on the request from the addressed and 999 addresses, none report is generated automatically.

² Power consumption on working point (higher on startup).

³ Max. 100m when using the same cable also for power supply.