

PGC1000

Targeted applications



The PGC1000 addresses analytical measurement solutions that are simple, highly accurate, cost-effective (requiring no shelter), modular and have very low maintenance and implementation requirements.

Measurement made easy

Targeted applications

App category	App description	Cycle time /carrier	Train
H2	Hydrogen - 0.1-100%	75 N2	BCJ
O2	Trace oxygen - 30-2000 ppm	330 H2/He	BBP
	% Level oxygen - 0.2-21%	330 He	BBH
H2O	Trace Moisture - H2O 0.002-2%	90 He	BCR
CO	Carbon monoxide - 0.2-100%	330 H2/He	BBH
H2S	H2S in fuel gas - 0-300 ppm	180/150 He/H2	BBR/BCM
H2S	Low level ppm H2S	660 sec	BDB
HRVOC	Highly reactive volatile organic compounds	420 He	BBC/BBJ/BBH
Permanent gasses	H2/O2/N2/CO	330 H2/He	BBH
Light hydrocarbons	C3+ w/N2/O2 split - Landfill	360 He	BBH/BCB
Light hydrocarbons	C3+ w/N2/O2 split - Landfill	345 He	BDG

Hydrocarbons (Gas quality)	Std C6+Btu application	315 H2/He	BBK/BBF
	Fast C6+ Btu app (H2 carrier)	90 H2	BCD/BCF
	Fast C6+ Btu app (He carrier)	180 He	BCC/BCG
	C6+ Btu app up to 1200 ppm H2S	315 H2/He	BBF/BBM
	C7+ Btu application	360 H2/He	BBF/BBS
	C7+ Btu app up to 1200 ppm H2S	540 H2/He	BBF/BCH
	C9+ Btu app w/HCDP available	360 He	BBK/BBF/BBT
	C6+ with trace H2S	360 He	BBK/BBF/BBR
	C6+ with N2/O2 split	330 He	BBK/BBF/BBH
	Demethanizer (tops & bottoms)	60 He	BCT/BCS
Process control	Deethanizer (tops & bottoms)	60 He	BCT/BCS
	Depropanizer (tops & bottoms)	60 He	BCT/BCS
	Debutanizer (tops & bottoms)	420 H2/He	BBK/BBJ
	Debutamer (tops & bottoms)	420 H2/He	BBK/BBJ
	Depentanizer (tops only)	420 H2/He	BBK/BBJ
	C4 Parafins/Olefins	420 H2/He	BBJ
	Propane/Propylene split	420 H2/He	BBJ

NOTE: The application tables above provide the user with an overview of ABB's Totalflow line of analytical products. Also included are the Totalflow line of predefined solutions/applications which illustrate how the table may be used to combine trains to satisfy a particular analysis requirement.

Defined column trains

Train designator	Measured components	Carrier
BBC	C3+/He/N2/C1/CO2/C2=/C2/C2/H2	H2/He
BBF	C3+/N2/C1/CO2/C2=/C2	H2/He
BBG	C3+/N2/C1/CO2/C2=/C2/H2S/H2O	H2/He
BBH	C1+/He/O2/N2/CO/H2	H2/He
BBJ	C5+/C3/C3=/IC4/NC4/B-1/IC4=/TB-2/CB-2/1,3-BD	H2/He
BBK	C6+/C3/IC4/NC4/NeoC5/IC5/NC5	H2/He
BBM	C6+/C3/H2S/IC4/NC4/NeoC5/IC5/NC5	H2/He
BBP	O2/N2	H2/He
BBR	H2S	H2/He
BBS	C7+/C3/IC4/NC4/NeoC5/IC5/NC5/C6's	H2/He
BBT	C9+/C6's/C7's/C8's	He
BBW	O2	He
BBX	C4+/CYC3/PD/MA	H2/He
BCB	C3+/H2/N2/C1/CO2/C2=/C2/H2S	H2/He
BCC	C6+/C3/IC4/NC4/NeoC5/IC5/NC5	He
BCD	C6+/C3/IC4/NC4/NeoC5/IC5/NC5	H2
BCF	C3+/N2/C1/CO2/C2=/C2	H2
BCG	C3+/N2/C1/CO2/C2=/C2	He
BCH	C7+/C3/H2S/IC4/NC4/NeoC5/IC5/NC5/C6's	H2/He
BCJ	H2 15 uL	N2
BCK	CO2+/He/O2/N2/CO/C1/H2	H2/He
BCM	H2S	H2/He
BCN	C4+/CYC3/PD/MA	H2/He
BCP	H2 30 uL	N2
BCR	H2O	H2/He
BCS	C3+/N2/C1/CO2/C2=/C2	He
BCT	C6+/C3/IC4/NC4/NeoC5/IC5/NC5	He
BCW	H2	N2
BCX	TMB	He
BCZ	THT	He
BDB	H2S	He
BDC	C3+/N2/C2=/H2/C1/CO2/C2H4/C2	H2/He
BDD	C6+/C3/IC4/NC4/NeoC5/IC5/NC5	He
BDF	C3+/N2/C1/CO2/C2=	He
BDG	C3+/H2/N2/C1/CO2/H2S/C2=	H2/He

The guidelines or technical limits allowed for combining trains are as follows:

1. Up to two trains per enclosure
 2. Up to two enclosures
 3. Limited to a total of four trains per analyzer system.
- The three letter combinations appearing in the far left column headed "Column train designator" correspond to the various sections outlined in the PGC1000 Applications Manual.