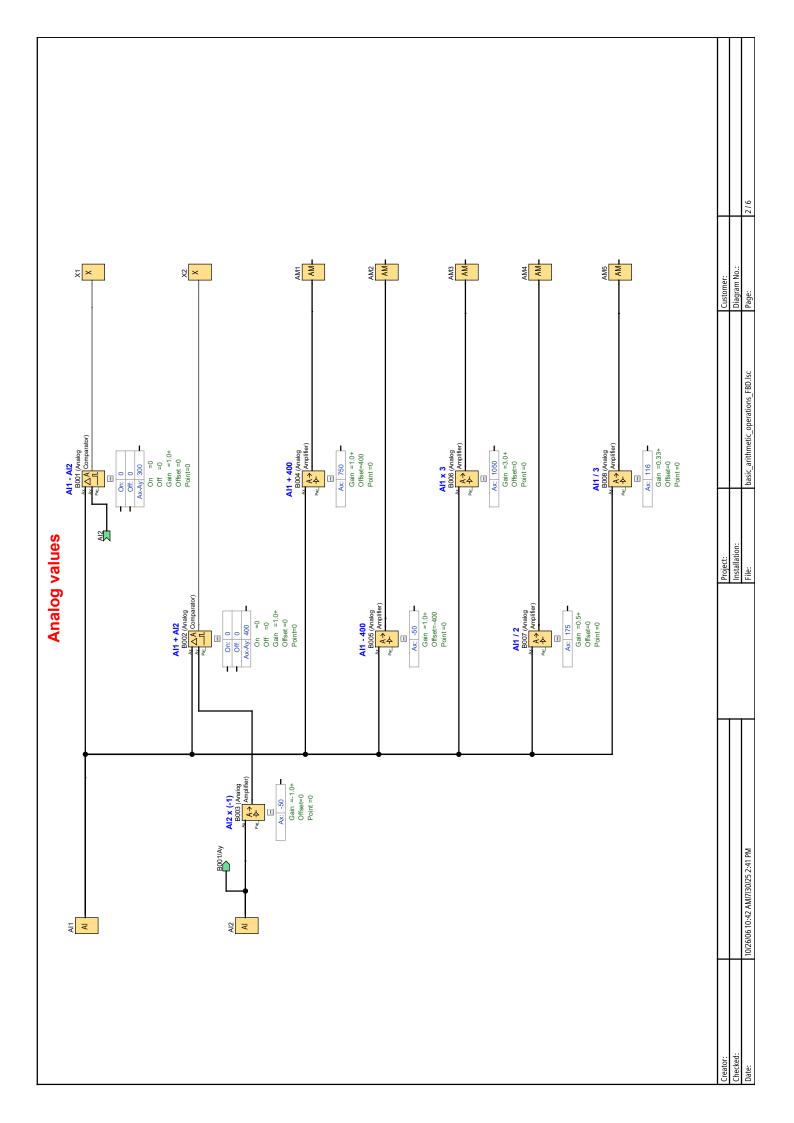
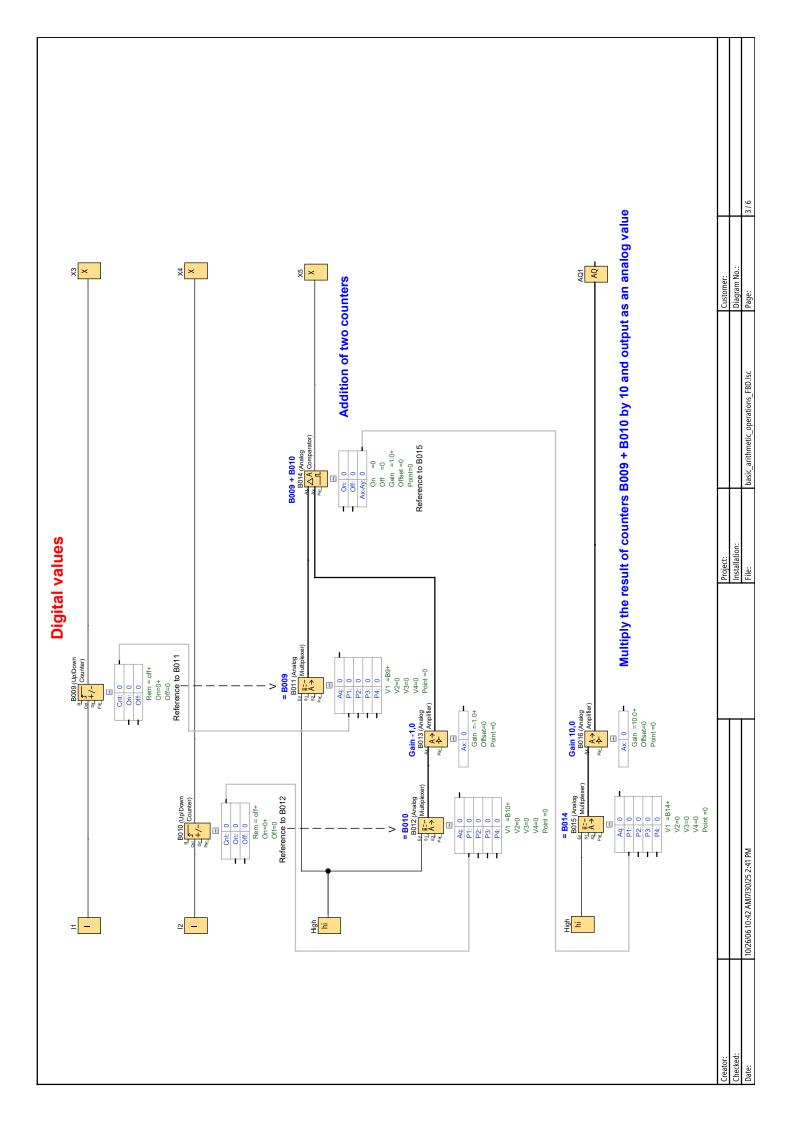
Basic arithmetic operations with LOGO!	The following examples shall show you how simple calculations (+, -, x, /) are possible with LOGO!. You are able to adapt these calculations to your requirements and also (for e.g.) form the sum of two counter values. They can be used in other parts of your application or also to display them to a display.	Analog values: - B001 subtracts the value of Al2 from Al1 [Al1 - Al2] - B002 sums the value of Al2 [Al1 + Al2] - B003 multiplies Al2 value by -1 (makes value negative) [Al2 x (-1)] - B004 adds 400 to Al1 value [Al1 + 400] - B005 subtracts 400 from Al1 value [Al1 - 400] - B006 multiplies Al1 by 3 [Al1 x 3] - B007 divides Al1 by 2 [Al1 / 2] - B008 divides Al1 by 3 [Al1 / 3]	Digital values: - B009 counts UP with trigger from input 1 [references to B011] - B010 counts UP with trigger from input 2 [references to B012] - B010 counts UP with trigger from input 2 [references to B012] - B014 adds the 2 counter values [C1 + C2 & references to B015] - B016 multiplies the added counter values by 10 [(C1 + C2) x 10]	Project: Customer: Customer: Installation: Installation: Diagram No.: 116 File: basic_arithmetic_operations_FBD.lsc Page: 116
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Block Number (Type)					Parameter				
B001(Analog Comparator) : (Analog Comparator)					On =0 Off =0 Gain =1.0+ Offset =0 Point=0				
B002(Analog Comparator) : (Analog Comparator)					On =0 Off =0 Gain =1.0+ Offset =0 Point=0				
B003(Analog Amplifier) : (Analog Amplifier)					Gain =-1.0+ Offset=0 Point =0				
B004(Analog Amplifier) : (Analog Amplifier)					Gain =1.0+ Offset=400 Point =0				
B005(Analog Amplifier) : (Analog Amplifier)					Gain =1.0+ Offset=-400 Point =0				
B006(Analog Amplifier) : (Analog Amplifier)	(Analog					Gain =3.0+ Offset=0 Point =0			
B007(Analog Amplifier) : (Analog Amplifier)					Gain =0.5+ Offset=0 Point =0				
B008(Analog Amplifier) : (Analog Amplifier)					Gain =0.33+ Offset=0 Point =0				
B009(Up/Down counter) : (Up/Down Counter)	Rem = off On=0+ Off=0 Start=0								
B010(Up/Down counter) : (Up/Down Counter)					Rem = off On=0+ Off=0 Start=0				
B011(Analog MUX) : (Analog Multiplexer)					V1 =B9+ V2=0 V3=0 V4=0 Point =0				
B012(Analog MUX) : (Analog Multiplexer)					V1 =B10+ V2=0 V3=0 V4=0 Point =0				
B013(Analog Amplifier) : (Analog Amplifier)				Gain =-1.0+ Offset=0 Point =0					
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Checked: 10/20/00 10 42 AM/7/20/25 2 44 PM		1	Installation:	best to		Diagram No.:	416		
Date: 10/26/06 10:42 AM/7/30/25 2:41 PM		I .	File:	pasic_arithr	netic_operations_FBD.lsc	raye:	4/6		

Block Numbe	er (Type)			Parameter		
B014(Analog C (Analog Comparator)	Comparator) :			On =0 Off =0 Gain =1.0+ Offset =0 Point=0		
B015(Analog N (Analog Multiplexer)	MUX):			V1 =B14+ V2=0 V3=0 V4=0 Point =0		
B016(Analog <i>A</i> (Analog Amplifier)	Amplifier) :			Gain =10.0+ Offset=0 Point =0		
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Connection	Label			
Al1				
AI2				
l1				
12				
AM1				
AM2				
AM3				
AM4				
AM5				
AQ1				
X1				
X2				
ХЗ				
X4				
X5				
Creator:		Project: Installation:	Customer:	
Checked: Date:	10/26/06 10:42 AM/7/30/25 2:41 PM	 Installation: File:	Diagram No.:	6/6