Commands

	Buffer								
	0	**1**	**2**	**…**	**36**	**37**	**38**	**…**	**66**
Format	Report-ID (0x00)	0x25	SendBuffer / 0			0	not used / 0		

	SendBuffer								
Job	**0**	**1**	**2**	**3**	**4**				
Connect	16					->	105	108	107
Request Data	14								
Run / Stop	6	24				->	105	108	107
Single	6	25							
AutoScale	6	12				->	105	108	107
Slow	8	11	2						
Fast	8	11	1						
CH1 Big / Small	8	5	2 / 1						
CH2 Big / Small	8	6	2 / 1						
CH3 Big / Small	8	7	2 / 1						
CH4 Big / Small	8	8	2 / 1						
CH1 on / off	6	7	1 / 0						
CH2 on / off	6	9	1 / 0						
CH3 on / off	6	10	1 / 0						
CH4 on / off	6	11	1 / 0						
CH1 Set Zero Level	3	23	1	Low Byte	High Byte				
CH2 Set Zero Level	3	23	2	Low Byte	High Byte				
CH3 Set Zero Level	3	23	3	Low Byte	High Byte				
CH4 Set Zero Level	3	23	4	Low Byte	High Byte				
CH1 AC / DC	6	28	1 / 0						
CH2 AC / DC	6	29	1 / 0						
CH3 AC / DC	6	30	1 / 0						
CH4 AC / DC	6	31	1 / 0						
CH1 Invert on / off	6	32	1 / 0						
CH2 Invert on / off	6	33	1 / 0						
CH3 Invert on / off	6	34	1 / 0						
CH4 Invert on / off	6	35	1 / 0						

Response

	Buffer									
	0	1	2	3	...	38	39	40	41	...	64
Format	Report ID		Command				Checksum Low Byte	Checksum High Byte	not used / 0		

Checksum Calculation

Calculated	SUM(Buffer[4] ... Buffer[35])
Transmitted	(255 – Buffer[38]) + ((255 – Buffer[39]) << 8)

		Buffer															
Command	Description Description	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
101 - 104 (0x65 – 0x68)	Data Channel 1 / 2 / 3 / 4	Data Start Index [2] + [3] << 8		Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
105 (0x69)			Voltage CH1	Voltage CH2	Voltage CH3	Voltage CH4	Timebase	Timebase Index	Zero Level CH1	Zero Level CH2	Zero Level CH3	Zero Level CH4	Number of Channels	Zoom Factor	= 1 -> Single	= 1 -> Continous (Running)
107 (0x6b)			Cursor Enabled	Selected Cursor	Cursor XY Selected	Cursor Both Selected	Cursor Horizontal Active	Cursor Vertical Active	Cursor Y1 Position [09] + [10] << 8 + [11] << 16 + [12] << 24				Cursor Y2 Position [13] + [14] << 8 + [15] << 16 + [16] << 24			
108 (0x6c)			Multi CH1	Multi CH2	Multi CH3	Multi CH4	Auto Free Run									
150 (0x96)	Quick Print	QP Option														
151 (0x97)	??? SendBuffer[0]=18 -> Transmit															
255 (0xff)	Sub-Commands: 1-4: Data CH1 – CH4, Content 6 – 37 5: Command 105 7: Command 107	Sub-Command														

Real Timebase: Timebase		
Timebase: (Timebase + Index)		BufCnt
0	2 ns / Div	16300
1	5 ns / Div	16300
2	10 ns / Div	16300
3	20 ns / Div	16300
4	50 ns / Div	16300
5	100 ns / Div	16300
6	200 ns / Div	16300
7	500 ns / Div	4060
8	1 µs / Div	4060
9	2 µs / Div	4060
10	5 µs / Div	4060
11	10 µs / Div	4060
12	20 µs / Div	4060
13	50 µs / Div	4060
14	100 µs / Div	4060
15	200 µs / Div	4060
16	500 µs / Div	4060
17	1 ms / Div	4060
18	2 ms / Div	4060
19	5 ms / Div	4060
20	10 ms / Div	4060
21	20 ms / Div	4060
22	50 ms / Div	4060
23	100 ms / Div	4060
24	200 ms / Div	4060
25	500 ms / Div	4060
26	1 s / Div	4060
27	2 s / Div	4060
28	5 s / Div	4060
29	10 s / Div	4060
30	20 s / Div	4060
31	50 s / Div	4060

MultiCHx > 0: Voltage Data = trunc(Voltage Byte / ((MultiCHx + 15) / 100)) – 64
MultiCHx = 0: VoltageData = Voltage Byte
Voltage Values = (ZeroLevel CHx - Voltage Data) * Probe Multiplier * Voltage Multiplier

Points / DIV = 50 * Zoom Factor
Real Timebase * Zoom Factor = Timebase + Timebase Index

Probe CHx Multiplier Voltage Chx	0 0.1	1 0.2	2 0.5	3 1	4 2	5 5	6 10	7 20	8 50	9 100	10 200	11 500	12 1000
3	1 mV / Div	2 mV / Div	5 mV / Div	10 mV / Div	20 mV / Div	50 mV / Div	100 mV / Div	200 mV / Div	500 mV / Div	1 V / Div	2 V / Div	5 V / Div	10 V / Div
4	2 mV / Div	4 mV / Div	10 mV / Div	20 mV / Div	40 mV / Div	100 mV / Div	200 mV / Div	400 mV / Div	1 V / Div	2 V / Div	4 V / Div	10 V / Div	20 V / Div
5	5 mV / Div	10 mV / Div	25 mV / Div	50 mV / Div	100 mV / Div	250 mV / Div	500 mV / Div	1 V / Div	2.5 V / Div	5 V / Div	10 V / Div	25 V / Div	50 V / Div
6	10 mV / Div	20 mV / Div	50 mV / Div	100 mV / Div	200 mV / Div	500 mV / Div	1 V / Div	2 V / Div	5 V / Div	10 V / Div	20 V / Div	50 V / Div	100 V / Div
7	20 mV / Div	40 mV / Div	100 mV / Div	200 mV / Div	400 mV / Div	1 V / Div	2 V / Div	4 V / Div	10 V / Div	20 V / Div	40 V / Div	100 V / Div	200 V / Div
8	50 mV / Div	100 mV / Div	250 mV / Div	500 mV / Div	1 V / Div	2.5 V / Div	5 V / Div	10 V / Div	25 V / Div	50 V / Div	100 V / Div	250 V / Div	500 V / Div
9	100 mV / Div	200 mV / Div	500 mV / Div	1 V / Div	2 V / Div	5 V / Div	10 V / Div	20 V / Div	50 V / Div	100 V / Div	200 V / Div	500 V / Div	1 kV / Div
10	200 mV / Div	400 mV / Div	1 V / Div	2 V / Div	4 V / Div	10 V / Div	20 V / Div	40 V / Div	100 V / Div	200 V / Div	400 V / Div	1 kV / Div	2 kV / Div
11	500 mV / Div	1 V / Div	2.5 V / Div	5 V / Div	10 V / Div	25 V / Div	50 V / Div	100 V / Div	250 V / Div	500 V / Div	1 kV / Div	2.5 kV / Div	5 kV / Div

Voltage Chx	Multiplier
1	0.00004166666666666667
2	0.00010416666666666667
3	0.00020833333333333333
4	0.00041666666666666667
5	0.0010416666666666667
6	0.0020833333333333333
7	0.0041666666666666667
8	0.010416666666666667
9	0.020833333333333333
10	0.041666666666666667
11	0.10416666666666667

18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data		
		Status CH1 Bit 0: Active Bit 2, 1: 00 = ?? 01 = AC 10 = ?? 11 = ?? Bit 3: Bit 4: Invert Bit 5: Bit 6:	Status CH2 Bit 0: Active Bit 2, 1: 00 = ?? 01 = AC 10 = ?? 11 = ?? Bit 3: Bit 4: Invert Bit 5: Bit 6:	Status CH3 Bit 0: Active Bit 2, 1: 00 = ?? 01 = AC 10 = ?? 11 = ?? Bit 3: Bit 4: Invert Bit 5: Bit 6:	Status CH4 Bit 0: Active Bit 2, 1: 00 = ?? 01 = AC 10 = ?? 11 = ?? Bit 3: Bit 4: Invert Bit 5: Bit 6:	Status Math Bit 0: Active Bit 1: Bit 2: Bit 3: Bit 4: Bit 5: Bit 6:														
Trigger	Trigger Level	Bit 7:	Bit 7:	Bit 7:	Bit 7:	Bit 7:	Probe CH1 (xx-101)	Probe CH2 (xx-101)	Probe CH3 (xx-101)	Probe CH4 (xx-101)	Probe CHE (xx-101)									
Cursor X1 Position [17] + [18] << 8 + [19] << 16 + [20] << 24				Cursor X2 Position [21] + [22] << 8 + [23] << 16 + [24] << 24				QM Threshold lower	QM Threshold middle	QM Threshold upper					Start Signal [32] + [33] << 8		TOC (Auto Free Run = 0) ([34] + [35] << 8)) + 40		FIR Start [36] + [37] << 8	

Depending on Sub-Command

Trigger	
0	FreeRun
1	Channel 1
2	Channel 2
3	Channel 3
4	Channel 4
5	Extern