



Recommended Standards (RS-) for Data Communications:

Transmitter		RS-232	RS-423	RS-422	RS-485
Mode of operation		Unbalanced	Unbalanced	Differential	Differential
Max No. of Drivers & Receivers on line		1 Driver 1 Receiver	1 Driver 10 Receivers	1 Driver 10 Receivers	32 Drivers 32 Receivers
Maximum cable length		15 m	1,200 m	1,200 m	1,200 m
Maximum data rate		20 kbps	100 kbps	10 Mbps	10 Mbps
Maximum Common Mode Voltage		±25 V	±6 V	+6 V to -0.25 V	+12 V to -7 V
Driver Output Signal		±5.0 V min ±25 V max	±3.6 V min ±6.0 V max	±2.0 V min ±6.0 V max	±1.5 V min ±6.0 V max
Driver Load		> 3 kohm	>450 ohm	100 ohm	60 ohm
Driver Out-put Resistn High-Z state	Power On	n/a	n/a	n/a	≤ 100 microA -7 Vcm ≤ 12V
	Power Off	300 ohm	≤100 microA @ ±6V	≤100 microA -.25V ≤ Vcm ≤ 6V	≤100 microA -7 Vcm ≤ 12V
Receiver input resistance		3 kohm to 7 kohm	>4 kohm	> 4 kohm	> 12 kohm
Receiver sensitivity		±3.0V	±200mV	±200mV -7 < Vcm ≤ 7V	±300mV -12V ≤ Vcm ≤ 12V
Dataforth's Line Drivers and Converters		DCP35 LDM30 LDM35 (RML35) LDM70 (RML70) LDM80 LDM85	LDM85	LDM422 * LDM85	DCP485 * LDM485 * (RML485 *) LDM2485 * SCM9B-A1000/A2000 * * Converters