

## MODBUS RS 485

### Guía de selección para módulos MODBUS con *entradas analógicas*

Module		M7005	M7015 *	M7033 M7033D
Analog Input	Resolution	16 bit	16 bit	16 bit
	Input channel	8 diff.	6 diff.	3 diff.
	Sampling rate	8Hz	12Hz	10Hz
	Voltage input	-	-	-
	Current input	-	-	-
	Sensor input	Thermistor (2 wire)	Pt/Ni/Cu RTD (2/3 wire)	Pt Ni-RTD (2/3/4 wire)
	4 1/2 digit LED Display	-	-	Yes for M-7033D
	Isolated loop power	-	-	-
	Input Linear scaling	-	-	-
	Isolation Voltage	3000V	3000V	3000V
Digital Input & Digital Output	Digital input channels	-	-	-
	Digital output channels	6	-	-
	Event counter	-	-	-
	High/Low Alarm	Yes	-	-
Individual Channel Configurable		Yes	Yes	-
Dual Watchdog Timer		Yes	Yes	Yes
Frame Ground		Yes	Yes	-

\* Módulos más comunes

## Guía de selección para módulos MODBUS con *entradas analógicas*

Module		M7016/ M7016D	M7017	M7017R
Analog Input	Resolution	16 bit	16 bit	16/12 bit
	Input channel	2 diff.	8 diff.	8 diff.
	Sampling rate	2/10Hz	10Hz (total)	10/60Hz (total)
	Fast Mode (12bit)	–	–	Yes
	Voltage input	+/-15mV +/-50mV +/-100mV +/-500mV +/-1V +/-2.5V	+/-150mV +/-500mV +/-1V +/-5V +/-10V	+/-150mV +/-500mV +/-1V +/-5V +/-10V
	Current input	+/-20mA	+/-20mA	+/-20mA
	Sensor input	4-wire Strain gauge Input	–	–
	4 1/2 digit LED Display	Yes for M-7016D	–	–
	Input Linear scaling	Yes	–	–
	Isolation Voltage	3000V	3000V	3000V
Digital Input & Digital Output	Digital input channels	1	–	–
	Digital output channels	4	–	–
	Event counter	Yes	–	–
	High/Low Alarm	Yes	–	–
Dual Watchdog Timer		Yes	Yes	Yes
Over voltage protection		–	+/-35V	240Vrms
Frame Ground		–	Yes	Yes

\* Módulos más comunes

## Guía de selección para módulos MODBUS con *entradas analógicas*

Module		M7018	M7018R *	M7019R *
Analog Input	Resolution	16 bit	16 bit	16 bit
	Input channel	8 diff.	8 diff.	8 diff.
	Sampling rate	10Hz (total)	10Hz (total)	8Hz (total)
	Voltage input	+/-15mV +/-50mV +/-100mV +/-500mV +/-1V +/-2.5V	+/-15mV +/-50mV +/-100mV +/-500mV +/-1V +/-2.5V	+/-15mV +/-50mV +/-100mV +/-150mV +/-500mV +/-1V +/-2.5V +/-5V +/-10V
	Current input	+/-20mA	+/-20mA	+/-20mA
	Sensor input	J.K.T.E.R.S.B N.C. thermocouple	J.K.T.E.R.S.B N.C.L.M. thermocouple	J.K.T.E.R.S.B N.C.L.M.L2 (DIN43710) thermocouple
	4 1/2 digit LED Display	-	-	-
	Isolation Voltage	3000V	3000V	3000V
Break Line Detection	-	Yes	Yes	
Individual Channel Configurable	-	-	Yes	
Dual Watchdog Timer	Yes	Yes	Yes	
Over voltage protection	+/-35V	240Vrms	240Vrms	
Frame Ground	Yes	Yes	Yes	

\* Módulos más comunes

### Guía de selección para módulos MODBUS con *salidas analógicas*

Module		M7022	M7024
Analog Output	Resolution	12 bit	14 bit
	Output Channels	2(*1)	4
	Voltage Output	0-10V	+/-10V, 0-10V +/-5V, 0-5V
	Current Output	0-20mA 4-20mA	0-20mA 4-20mA
Safe Value (When Host Fail or communication fail)		Yes	Yes
Power-on Preset Value		Yes	Yes
Dual Watchdog Timer		Yes	Yes

### Guía de selección para módulos MODBUS con *entradas y salidas digitales*

Module		M-7041/ M-7041D	M7045/ M7045D	M7050/ M7050D	M7051/ M7051D
Digital input and Digital output	Digital input channels	14 Isolation (3750V)	–	7	16 Isolation (3750V)
	Digital output channels (open collector)	–	16 Isolation (3750V)	8	–
	Alarm Setting	–	–	–	–
Counter	Channels	14	–	7	16
	Input frequency	100Hz	–	100Hz	100Hz
LED Display		Yes for M-7041D	Yes for M-7045D	Yes for M-7050D	Yes for M-7051D
Safe Value (When Host Fail or communication fail)		–	Yes	Yes	–
Power-on Preset Value		–	Yes	Yes	–
Dual Watchdog Timer		Yes	Yes	Yes	Yes

\* Módulos más comunes

### Guía de selección para módulos MODBUS con *entradas y salidas digitales*

Module		M7052/ M7052D	M7053/ M7053D	* M7055/ M7055D
Digital input and Digital output	Digital input channels	8 Isolation (5000V)	16	8 Isolation (3750V)
	Digital output channels (open collector)	–	–	8 Isolation (3750V)
	Alarm Setting	–	–	–
Counter	Channels	8	16	8
	Input frequency	100Hz	100Hz	100Hz
LED Display		Yes for M-7052D	Yes for M-7053D	Yes for M-7055D
Safe Value (When Host Fail or communication fail)		–	–	Yes
Power-on Preset Value		–	–	Yes
Dual Watchdog Timer		Yes	Yes	Yes

### Guía de selección para módulos MODBUS con *entradas y salidas digitales*

Module		M7060/ M7060D	M7067/ M7067D	M7080/ M7080D
Digital input and Digital output	Digital input channels	4 Isolation (3750V)	–	–
	Digital output channels	4 Channel Relay Form A x 2 Form C x 2	7 Channel Relay Form A	2 Channel
	Alarm Setting	–	–	–
Counter	Channels	4	–	2
	Input frequency	100Hz	–	100 KHz
LED Display		Yes for M-7060D	Yes for M-7067D	Yes for M-7080D
Safe Value (When Host Fail or communication fail)		Yes	Yes	Yes
Power-on Preset Value		Yes	Yes	Yes
Dual Watchdog Timer		Yes	Yes	Yes

\* Módulos más comunes