

Алматы (7273)495-231
 Ангарск (3955)60-70-56
 Архангельск (8182)63-90-72
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Благовещенск (4162)22-76-07
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Владикавказ (8672)28-90-48
 Владимир (4922)49-43-18
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89
 Иваново (4932)77-34-06

Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Коломна (4966)23-41-49
 Кострома (4942)77-07-48
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курган (3522)50-90-47
 Курск (4712)77-13-04
 Липецк (4742)52-20-81
 Магнитогорск (3519)55-03-13

Москва (495)268-04-70
 Мурманск (8152)59-64-93
 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Новосибирск (383)227-86-73
 Ноябрьск (3496)41-32-12
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16
 Пермь (342)205-81-47
 Петрозаводск (8142)55-98-37
 Псков (8112)59-10-37

Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Санкт-Петербург (812)309-46-40
 Саранск (8342)22-96-24
 Саратов (845)249-38-78
 Севастополь (8692)22-31-93
 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13
 Сургут (3462)77-98-35
 Сыктывкар (812)25-95-17
 Тамбов (4752)50-40-97

Тверь (4822)63-31-35
 Тольятти (8482)63-91-07
 Томск (3822)98-41-53
 Тула (4872)33-79-87
 Тюмень (3452)66-21-18
 Улан-Удэ (3012)59-97-51
 Ульяновск (8422)24-23-59
 Уфа (347)229-48-12
 Хабаровск (4212)92-98-04
 Чебоксары (8352)28-53-07
 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Чита (3022)38-34-83
 Якутск (4112)23-90-97
 Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

akm@nt-rt.ru || <https://ametek.nt-rt.ru/>

TC-10B Specifications

Power-Line Carrier

AMETEK
 POWER INSTRUMENTS

Transmitter/Receiver Specifications

Frequency Range	30-535 kHz in 0.5 kHz (500 Hz) steps, transmitter selection in 100 Hz steps
4-Wire Receiver Input Impedance	5,000 ohms or 1,000 ohms
RF Output Impedance	50, 75 or 100 ohms (nominal unbalanced)
Output Power	10 watts (max)
Frequency Stability	± 10 Hz (typical)
Nominal Receiver Bandwidths	Narrow band: (800 Hz at 3 dB points) Wide band (1600 Hz at 3 dB points)
Harmonic Distortion	On-Off Phase Comparison (3,500 Hz at 3 dB points)
Receive Sensitivity (Narrow or Wide Band)	55 dB below full power 22.5 mV (min) to 70 V (max) Standard setting 5 mV (min) to 17 V (max) High setting

Channel Speed at 15 dB Margin, Solid State Output	System Specifications (Min. Channel Spacing)
Narrow Band (800 Hz) 3.8ms (pickup) 6.0ms (dropout)	Wideband 4kHz
Standard (Wide) Band (1,600 Hz) 2.4ms (pickup) 3.8ms (dropout)	Narrow band 2kHz
Phase Comparison Band (3,500 Hz) 1.3ms (pickup) 1.5ms (dropout)	W/Voice Adapter 4kHz
	Phase Comparison 4kHz
	<i>An ext. hybrid or other device offering at least 20dB rejection of the adjacent channel must be used in the application</i>
Keying Specifications	

Carrier Start, Carrier Stop	All optically isolated for operation at 15V, 48V, 125V, or 250Vdc, strappable for either presence or absence of voltage for keying, as well as carrier start or stop priority (maximum burden is 20mA)
Auxiliary (Reduced Power) Keying	
Manual Keying	Recessed push button switches for carrier start and auxiliary keying

Receiver Output Specifications

Two independent relaying outputs	Outputs (fully isolated) provide up to 1A transistor switch for microprocessor relaying or 200mA (into 24 ohms), 20 mA (into 2,200 ohms); will operate from any battery supply (20 to 280 Vdc)
One receive alarm output (Detect)	One Form A 100 VA, 125 Vdc (maximum)
One carrier level output	0-100 pAfor external indicator

Alarm & Level Option Specifications

Alarm Contacts (dc Power Loss RF "ON", and Receive at Margin; 3 separate relays)	Form A or B contacts (field strappable) rated 100 VA; 0.5 sec. of dropout delay
Carrier Level Indication Meter	-20 dB to +10 dB

Universal Checkback Specifications

PC interface for controlling settings and operation
 On-line help
 User selectable encoded or timed carrier
 Three user programmable outputs
 Optional timed communications fallback
 Optional low power tests

Automatic checkback tests done either periodically or at user specified times
 Loopback test capability
 Remote communications
 Automatic clock synchronization
 Optional carrier recovery

PLC Power-Line Carrier

Voice Adapter Option Specifications

Modulation	Amplitude Modulation with compandor
Transmission	Half-Duplex
Frequency Response	300 Hz to 2 kHz
Signaling	Carrier alarm

Environmental Specifications

Ambient Temp. range of air	-20 to +60°C (derated per Table 1-9 in system manual) (ANS C37.90)
Relative Humidity	Up to 95% (non-condensing) at 40°C (for 96 hrs. cumulative) (ANS/UL 508)
Altitude	Up to 1,500m (without derating), 6,000m (using Table 1-8 & 1-9 in system manual)
SWC and FAST Transient	All external user interfaces meet SWC and FAST Transients of ANS C37.90.1 & IEC 255-6
Dielectric	Only isolated inputs and outputs, and all alarms: 2,500 Vdc from each terminal to ground derated per Table 1-8 in system manual (IEC 255-5)
Center conductor of coaxial cable to ground	3.000 Vdc impulse level, using 1.2 x 50 msec impulse
Electro-Magnetic Interference Compatibility	IEEE Standard (ANS C37.90.2)

Power Requirement Specifications					Altitude Correction for Maximum Temperature of Cooling Air (ANS C93.5)				
Transceiver		Supply Current (Amps) at Nominal voltage			Temperature (Degrees C)				
Nominal Battery Voltage	Permissible Voltage Range	Receive/ 1 Watt 10 Watt Standby Transmit Transmit			Usual	Unusual	Unusual	Unusual	From Usual
		48/60 Vdc	38-70 Vdc	.630					.940
110/125 Vdc	88-140 Vdc	.240	.360	.600	2,000	53	38	2	
220/250 Vdc	176-280 Vdc	.120	.180	.300	3,000	48	33	7	
					4,000	43	28	12	

Altitude Dielectric Strength De-Rating for Air Insulation

Altitude (Meters)	Correction Factor
1,500	1.00
1,800	0.97
2,100	0.94
2,400	0.91
2,700	0.87
3,000	0.83
3,600	0.79
4,200	0.74
4,800	0.69
5,400	0.64
6,000	0.59

Weight and Dimension Specifications

Equipment	Net Weight		Height in. mm	Width		Depth in. mm	Rack space
	lbs	Kg		in.	mm		
Transceiver	21	9.53	5.25 133.4	19.00	482.6	13.50 342.9	3 RU

AMETEK

POWER INSTRUMENTS

Алматы (7273)495-231
 Ангарск (3955)60-70-56
 Архангельск (8182)63-90-72
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Благовещенск (4162)22-76-07
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Владикавказ (8672)28-90-48
 Владимир (4922)49-43-18
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89
 Иваново (4932)77-34-06

Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Коломна (4966)23-41-49
 Кострома (4942)77-07-48
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курган (3522)50-90-47
 Курск (4712)77-13-04
 Липецк (4742)52-20-81
 Магнитогорск (3519)55-03-13

Россия +7(495)268-04-70

Москва (495)268-04-70
 Мурманск (8152)59-64-93
 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Новосибирск (383)227-86-73
 Ноябрьск (3496)41-32-12
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16
 Пермь (342)205-81-47
 Петрозаводск (8142)55-98-37
 Псков (8112)59-10-37

Казахстан +7(7172)727-132

Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Санкт-Петербург (812)309-46-40
 Саранск (8342)22-96-24
 Саратов (845)249-38-78
 Севастополь (8692)22-31-93
 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13
 Сургут (3462)77-98-35
 Сыктывкар (8212)25-95-17
 Тамбов (4752)50-40-97

Киргизия +996(312)96-26-47

Тверь (4822)63-31-35
 Тольятти (8482)63-91-07
 Томск (3822)98-41-53
 Тула (4872)33-79-87
 Тюмень (3452)66-21-18
 Улан-Удэ (3012)59-97-51
 Ульяновск (8422)24-23-59
 Уфа (347)229-48-12
 Хабаровск (4212)92-98-04
 Чебоксары (8352)28-53-07
 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Чита (3022)38-34-83
 Якутск (4112)23-90-97
 Ярославль (4852)69-52-93