



ITF-07

Arithmetic Circuit Training Kit

The ITF-07 kit incorporates the basic circuits of a calculator on its panel to provide visual training in four arithmetic operations.

Characteristics:

- The circuit elements necessary for arithmetic calculation are indicated graphically on the panel for easy understanding.
- While inputs are in decimal and calculations are in binary, results can be given in decimal or binary.
- Register contents are indicated as [0] or [1] on the LED digit indicator.

Learning items:

- Adding calculators
- Subtracting calculators
- Multiplying calculators
- Dividing calculators

Specifications

Calculating system	Binary calculating system by manual control
Addition	1-digit addition (0+0=0 ~ 9+9=18), Accumulation: 19 max.
Subtraction	1-digit subtraction, Accumulation: -15 max.
Multiplication	1-digit multiplication (0x0=0 ~ 9x9=81)
Division	1-digit division (0÷1=0 ~ 9÷1=9)
Power supply	AC 100/110/117/200/220/234 V, 50/60 Hz, 10 W
Size and weight	450 (W) X 330 (H) X 80 (L) mm, 5.8 kg
Operating temperature	0° to 50°C, 90% RH

ITF-201

Optical Transmission Training Kit

The ITF-201T functions as a transmitter and the ITF-201R functions as a receiver, with an optical fiber connecting the two together. This kit is a suitable aid for training in:

1. Analog data transmission using optical modulation
2. Digital data transmission using A/D and D/A converters
3. Electric/optical and optical/electric converter devices



Specifications

	<i>ITF-201T Transmitter</i>	<i>ITF-201R Receiver</i>
Input		
Internal signal	1 Hz square wave, two kinds of artificial IC music	Optical signal (PIN photo diode)
Microphone	Internal or external (optional)	Analog, digital, variable
External input	0.1 V to 10 V	
Transmission mode	Analog, digital	
A/D converter		
Mode of operation	Successive-approximation converter	
Resolution	8 bits	
Input voltage	-10.24 V to +10.16 V	
Sampling period	0.5 ms to 10 ms in 5 steps	
Output		
Mode of operation	Optical modulation using LED diode	
Wavelength	660 nm	
Bias	Analog, digital, variable	
Data transmission		
Mode of operation	RS-232C, NRZ, 19,200 baud rate	
Power supply	AC 100/117/200/217/234 V, 50/60 Hz, approx. 12 W	
Size and weight	350 (W) X 150 (H) X 83 (D) mm, 4 kg	
Operating temperature	0° to 40°C, 85% RH	
		Input
		Input signal
		Bias
		Serial D/A converter
		Resolution
		D/A output
		Output
		Power supply
		AC 100/117/200/217/230 V, 50/60 Hz, approx. 10 W
		Size and weight
		350 (W) X 150 (H) X 83 (D) mm, 4 kg
		Operating temperature
		0° to 40°C, 85% RH