TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

P.55

# TELEPHONE TRANSMISSION QUALITY OBJECTIVE MEASURING APPARATUS

## APPARATUS FOR THE MEASUREMENT OF IMPULSIVE NOISE

### ITU-T Recommendation P.55

(Extract from the Blue Book)

#### **NOTES**

1	I	ΓU-T R	Recomm	nendation	P.55	was	publishe	d in	Volume	v V	of the	Blue	Book.	This	file i	s an	extra	ct fron	n the
Blue	Book.	While	the pr	esentatio	n and	layo	ut of the	e text	might	be	slightly	diffe	erent f	rom t	he Bl	lue E	Book v	ersion	i, the
conte	ents of	the file	are ide	entical to	the $Bl$	ue Bo	ok versi	on ar	id copyi	igh	t condi	tions 1	remain	unch	angeo	l (see	e belo	w).	

2	In	this	Recommendation,	the	expression	"Administration"	is	used	for	conciseness	to	indicate	both	a
telecommunication administration and a recognized operating agency.														

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#### **Recommendation P.55**

#### APPARATUS FOR THE MEASUREMENT OF IMPULSIVE NOISE

(Mar del Plata, 1968)

Experiments have shown that clicks or other impulsive noises which occur in telephone calls come from a number of sources, such as faulty construction of the switching equipment, defective earthing at exchanges and electromagnetic couplings in exchanges or on the line.

There is no practical way of assessing the disturbing effect of isolated pulses on telephone calls. A rapid succession of clicks is annoying chiefly at the start of a call. It is probable that these series of clicks affect data transmission more than they do the telephone call and that connections capable of transmitting data, according to the noise standards now under study, will also be satisfactory for speech transmission.

In view of these considerations, the CCITT recommends that Administrations use the impulsive noise counter defined in Recommendation O.71 [1] for measuring the occurrence of series of pulses on circuits for both speech and data transmission.

*Note* – At the national level, Administrations might continue to study whether the use of this impulsive noise counter is sufficient to ensure that the conditions necessary to ensure good quality in telephone connections are met. In those studies, Administrations may use whatever measuring apparatus they consider most suitable – for example a psophometer with an increased overload factor – but the CCITT does not envisage recommending the use of such an instrument.

#### Reference

[1] CCITT Recommendation Specification for an impulsive noise measuring instrument for telephone-type circuits, Vol. IV, Rec. O.71.